

#### COVER PICTURE

"The Birth of a New Variety"

A plant breeder crosses two wheat plants in the first step of what may be the development of a useful new variety.

Photo by W. E. Clark, Canada Department of Agriculture, Winnipeg.

### SASKATCHEWAN WHEAT POOL

## Variety Tests

WHEAT, OATS, BARLEY and RAPE

1958



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# Joreword

#### By The President of the Saskatchewan Wheat Pool

Gradually, but inevitably, over the years the farmer has had to give more and more attention to management decisions in his farming operations. This has been particularly true during the last few years when his costs have been rising and his grain income falling. In many cases his success or failure depended on the skill with which he made these decisions.

One such decision involves the choice of the best grain varieties to be grown for a particular area. This choice involves consideration not only of yields, but of other factors such as straw strength, time of maturity, resistance to shattering, etc., all of which affect the amount of grain which can be harvested. The series of tests described in this booklet provide information on a number of grain varieties, which will assist a farmer in any particular area to make his decision. These tests conducted over a long period of years throughout the grain growing area of the province have provided a living demonstration to large numbers of producers of the importance of choosing the best varieties available.

To the young farm men and women who supervised these tests, I would like to express, on behalf of the Saskatchewan Wheat Pool, our sincere appreciation for a job well done. We hope that your experience in this type of work will be of some assistance to you in whatever field of endeavor you choose to enter.

John H Wesen

## Introduction

The short history of grain production in Western Canada has witnessed a remarkable change in farming methods and in the grain varieties grown. Plant breeders have carried on a constant search for varieties which would withstand the effects of weather, insect pests or plant diseases. Successful farmers have ever been on the alert for better varieties and for improved practices. The primary purpose of the Wheat Pool's variety testing program, during the years it has been carried on, has been to compare newly developed varieties with the ones presently in use in the different areas of the province. A second purpose has been to stimulate the interest of young farm men and women in growing the best varieties available.

This booklet is a report on the tests conducted during 1958. Since most readers will be primarily interested in one area of the province or in one crop, the report has been arranged with this in mind. A detailed index has been provided showing the location of the different sections. In addition, an alphabetical index at the back of the book will assist the reader to find any individual test. For those interested in the province as a whole, yields are given in chart form on page 48 for wheat, on page 42 for oats and page 64 for barley.

The following table shows the different types of tests conducted in 1958 and the varieties included in each.

Project	No. of Tests	Varieties
Wheat	123	Thatcher, Selkirk, Stewart, Ramsey, Chinook, Lake (1)
Oats	46	Exeter, Rodney, Garry, Clintland, Fundy.
Barley	116	Husky, Traill, Parkland, Montcalm, Vantage, York (2)
Rape	32	Golden, Regina II, R-5, Arlo, Polish.
Total	317	

<sup>(1)</sup> Only five of the six wheat varieties were included in each test. Thatcher, Selkirk, Stewart and Ramsey were included in wheat tests throughout the province. Chinook was included only in those tests located in the south, south-west and west-central cereal variety zones. It was replaced by Lake in those tests located in the east, north-east and northern zones.

#### ORGANIZATION OF THE TESTING PROGRAM

As in previous years the 1958 variety testing project was planned and carried out under the direction of the Field Husbandry Department of the University of Saskatchewan. Valuable assistance during the year was provided by Dr. W. J. White, head of the Department and by Drs. E. N. Larter and D. R. Knott. The threshing, summarizing and statistical analysis were carried out at the Head Office of the Wheat Pool under the direction of A. D. McLeod.

In planning the project an attempt was made to distribute the tests as uniformly as possible throughout the grain growing area of the province. The map on page 5 shows the distribution which was achieved. Each individual test was conducted by a young farm man or woman selected for the work by the Wheat Pool delegate in each sub-district. Much of the

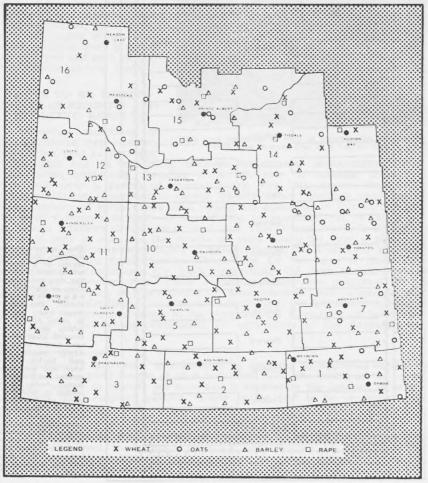
<sup>(2)</sup> Husky, Traill, Parkland and Montcalm were included in tests in all areas of the province. Vantage was used only in those tests located in the south, south-west and west-central cereal variety zones. It was replaced by York in those tests located in the east, north-east and northern zones.

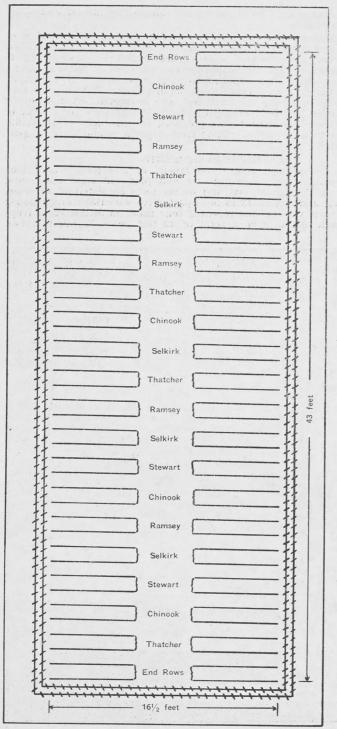
credit for the success of this testing project is due to the interest and effort of these young people.

Seed and equipment for each test was prepared at the Head Office of the Wheat Pool and mailed to the supervisors with complete instructions for seeding. During the growing season each supervisor was asked to complete three progress reports comparing the varieties at various stages of growth. A rain gauge was supplied to each supervisor and a part of his duties was to measure and record the amount of rainfall during the four month growing season. In the fall each test was harvested, dried, wrapped in paper and shipped to the Head Office of the Wheat Pool for threshing and yield calculation. This report was prepared on the basis of threshing results together with information gained from reports completed by supervisors and delegates.

#### DESCRIPTION OF TESTS

The diagram on page 6 shows the layout of a typical wheat test. Barley and oat tests were similar in size and plan but rape tests were somewhat different. The wheat, oat and barley tests consisted of 44 rows, each 16½ feet long and spaced 12 inches apart. Five varieties were included in each test and each variety was repeated four times in double rows (replicates) within each test to give a total of 40 test rows. In addition two





The accompanying diagram shows the layout of a typical wheat test. One of the five randomizations or varietal arr r a n g e m e n t s is shown. The te s trows were seeded in pairs spaced 12 inches apart. The crossed lines represent border rows of winter wheat. Oat and barley tests were laid out in a similar m a n n e r. Rape tests were seeded in single instead of d o u b l e ro w s, spaced 24 inches apart, but with single rows of winter wheat seeded between. A two-foot pathway was left between the test and the surrounding field.

rows were seeded at each end of the test for protection purposes. The whole test was surrounded by a double row of winter wheat. When harvesting, each pair of test rows was made into a single sheaf, and the twenty sheaves were each threshed and weighed separately.

Because of the bushy nature of rape plants it was not possible to seed the rows 12 inches apart. The rape tests were therefore seeded in single rows, 16½ feet long, spaced 24 inches apart, with a single row of winter wheat between. A single protection row of rape was seeded at each end, and the whole test was surrounded by a double row of winter wheat. Five rape varieties were included in each test and each variety was replicated four times.

## FACTS TO BE REMEMBERED IN READING AND STUDYING RESULTS

Growing conditions in Saskatchewan vary considerably from year to year and



This seed dispenser is used to measure the amount of seed used in each row of a variety test.

ably from year to year and this factor has an important influence on varietal performance. Therefore, when comparing varieties it is advisable to consider their performance over a period of several years. For this reason, the section "Summarization According to Cereal Variety Zones" outlines yield results for a number of years where such results are available. In this section also frequent reference is made to the official recommendations of the Sask-atchewan Advisory Council on Grain Crops. This Council meets in December of each year to consider the results of tests conducted over a period of years by the experimental farms in Saskatchewan, the University of Sask-atchewan and the Saskatchewan Wheat Pool. On the basis of these tests official recommendations are made concerning the best varieties to be grown the following year. These recommendations are published in the pamphlet "Varieties of Grain Crops for Saskatchewan 1959." Copies of this pamphlet are distributed to elevator agents and are available on request from any Experimental Farm in the province, the University of Saskatchewan, the Saskatchewan Department of Agriculture or the Saskatchewan Wheat Pool.

#### Necessary Difference

"Necessary difference" is calculated by applying an approved statistical formula to the yield results of each individual test. The result of the calculation is shown in bushels per acre and it represents the amount by which a variety must outyield another variety in the test to be considered significantly higher in yield.

#### Straw Strength

Straw strength was reported on the basis of 1-9. If the plants were straight and erect, the strength of straw was recorded as 1. If the straw showed signs of weakness a higher number was used, depending upon the degree of weakness observed.

#### Neck Strength

This term appears only in connection with barley tests. Neck strength was recorded on the basis of 1, 2 or 3 where 1 indicated a strong neck holding the head upright, 2 indicated a neck of medium strength, and 3 indicated weakness in the neck.

#### **Results of Individual Tests**

The results of individual tests appear in the following tables: Wheat No. 25; Oats No. 40; Barley No. 63; Rape No. 70. These results are arranged according to Wheat Pool districts (illustrated on page 5), so that a reader who wishes to study the results in a particular area may readily locate the tests in which he is interested. An alphabetical index of test supervisors is included at the back of the booklet so that any individual test can be located. It should be emphasized that the results of a single test give an accurate comparison of the varieties only under the conditions which exist on the farm where the test is located. Results may differ widely, even in tests grown relatively close together. This variation may be due to several causes such as difference in soil type, climatic conditions and date of seeding. Summary by Cereal Variety Zones

The individual tests were grouped for analysis on the basis of cereal variety zones. These zones are illustrated on pages 48 and 49. Each zone represents an area in which conditions influencing plant growth are generally similar. While local conditions may vary considerably within the zone, in general the average yield results can be considered to represent the performance of the varieties for that zone.

#### Grading Remarks

In determining commercial grades, bushel weight is an important consideration. However, there are many other factors which may lower the grade of a sample. In the individual results, the column headed "Grading Remarks" contains abbreviations used to indicate defects other than bushel weight, which appear in the sample of grain.

The following abbreviations have been used to indicate the various defects:

Bl.—Bleached B.P.—Black Point D.—Damaged Dk.G.—Dark Green E.—Ergot G.—Green Kernels
I.—Immature
St.—Starchy
Sp.—Sprouted
W.—Weather Stained

F.—Frozen

(A)-Insufficient grain to determine bushel weight.

#### RAINFALL

The amount of rainfall during the growing season has a greater influence on yields than does the annual precipitation. The following table shows average rainfall by cereal variety zones for the four months which represent the grain growing period in Saskatchewan. Rainfall is also reported on an individual test basis in the section "Individual Summarized Results of Tests."

TABLE No. 1—AVERAGE MONTHLY RAINFALL IN INCHES DURING THE PERIOD MAY-AUGUST SUMMARIZED BY CEREAL VARIETY ZONES

	SUMMARIZ	ED BY	CEREAL	VARIETY	ZONES		
	Cereal Variety Zone	May	June	July	August	Total	
	1A	.19	1.21	1.78	1.21	4.39	
	1B	.48	1.42	1.61	1.36	4.87	
	1C	.17	1.08	1.38	.74	3.37	
	1D	.64	1.15	1.74	.41	3.94	
	2 A	.14	1.02	1.09	. 43	2.68	
	2B	.29	.83	2.74	1.05	4.91	
	2D	.75	.80	2.74	. 53	4.82	
	2E	.11	1.33	1.60	1.91	4.95	
	3A	.19	1.00	2.04	1.15	4.38	
	3B	.41	.77	1.89.	2.35	5.42	
	3C	.21	.70	2.06	1.47	4.44	
	3D	.56	1.43	2.09	.59	4.67	
	3E	1.54	1.22	.83	.50	4.09	
	3F	.70	1.44	2.28	1.56	5.98	
	3G	.67	.83	3.57	.57	5.64	
	3H	1.80	1.11	1.71	1.85	6.47	
	31	.69	.79	2.11	1.25	4.84	
	4A	.54	1.33	2.24	1.46	5.57	
100	4B	1.46	.79	1.86	1.27	5.38	

**Note:** The above table was compiled from rainfall records kept by test supervisors. Each supervisor was supplied with a rain gauge and one of his duties was to keep a record of rainfall during the growing season.

#### WHEAT TESTS

A total of 123 wheat tests were seeded in 1958. Five varieties were included in each individual test. Thatcher, Selkirk Stewart and Ramsey were included in tests throughout the province. Chinook was included only in those tests located in the south, south-west and west-central portion. This area includes Cereal Variety Zones 1A to 2D inclusive with the exception of Zone 2A. It was replaced by Lake in the remainder of the province, that is, in Cereal Variety Zones 2A and 2E to 4B inclusive. For the location of these zones see the map on page 48.

#### DECRIPTION OF VARIETIES

NOTE—For a report on the official recommendations and the yielding ability of the following varieties, see "Summarization According to Cereal Variety Zones" beginning on page 13.

Thatcher is included in these tests as a standard of comparison. It was developed from a cross between (Marquis X Iumillo) X (Marquis X Kanred) made in 1921 at the University of Minnesota, Thatcher is drought resistant, high yielding and high in milling and baking quality. It is resistant to shattering and to spring frost damage, but susceptible to bleaching. It is resistant to loose smut and moderately resistant to common rootrot, but susceptible to leaf rust, to stem rust and to covered smut.

Selkirk was developed at the Laboratory of Cereal Breeding, Winnipeg, from crosses involving the varieties McMurachy, Exchange and Redman. It was licensed for commercial distribution in 1953. It is equal to Thatcher in maturity, straw length and straw strength. It is less resistant to shattering, but more resistant to bleaching. Selkirk is resistant to stem rust, to loose and covered smut and moderately resistant to leaf rust.

Stewart is a durum variety included in these tests for comparison with bread wheats. It was developed at the North Dakota Agricultural Experiment Station in co-operation with the United States Department of Agriculture. It was licensed in Canada in 1946. Stewart is a high quality durum variety which has long, medium strong straw and is late in maturity. It is resistant to leaf rust, but moderately susceptible to loose and covered smut, and very susceptible to stem rust.

Ramsey is a new durum variety included in these tests for comparison with the bread wheats. It was developed in North Dakota from a cross between Carleton and an unnamed variety from Palestine. Ramsey was licensed in Canada in 1957. It is equal to Stewart in maturity but has shorter, stronger straw. It is eligible for the top durum grades. Ramsey has some resistance to stem rust, leaf rust and covered smut, but is moderately susceptible to covered smut and susceptible to loose smut.

Chinook—This variety was developed by the Central Experimental Farm, Ottawa, from a cross between Thatcher and a solid stemmed wheat. It is resistant to sawfly damage and is higher in milling and baking quality than is Rescue. Compared with Thatcher, Chinook has taller, weaker straw, but is equal in maturity. Chinook has high bushel weight, is susceptible to stem and leaf rust, moderately susceptible to loose and covered smut and moderately resistant to common rootrot.

Lake—This variety was developed at the Experimental Farm at Scott from the cross Regent X Canus and was licensed for distribution in 1954. It has medium-long, strong straw and is later in maturity than Thatcher. Lake is less resistant to shattering than is Thatcher. It is resistant to covered smut, but susceptible to loose smut, to stem and leaf rust.

#### PERFORMANCE OF VARIETIES

The 1958 season began with unseasonably warm dry weather prior to seeding and soil drifting was experienced in some areas. Many of the tests were seeded in dry soil which caused slow or uneven germination. In the latter part of May some frost damage occurred in the east and south-central part of the province. During May and June rainfall was generally light in

nearly all areas of the province, and particularly so in the south-east and west-central areas. However, temperatures remained fairly low during this period, and this factor, as well as a good root system, enabled the crop to withstand the drought remarkably well. Several of the tests were destroyed by drought but most of those located on summerfallow were not too seriously damaged. Hail and wind damage were lighter in 1958 than in several previous years.

TABLE No. 2—AVERAGE YIELDS IN BUSHELS PER ACRE SUMMARIZED BY CEREAL VARIETY ZONES

Cereal** Variety Zone	No. of Satis- factory Tests	Thatcher	Selkirk	Stewart	Ramsey	Chinook	Lake	Necessary Difference* in Bushels
1A	10	18.9	18.7	17.0	19.8	19.2	_	1.03
1B	3	23.3	21.6	20.3	21.7	22.1	-	N.S.
1C	6	12.6	13.5	10.4	11.9	13.7	-	.66
1D	11	16.9	17.2	16.5	16.7	17.7	-	.97
2A	2	15.7	14.7	15.3	15.4		15.0	N.S.
2B	5	26.8	24.0	23.2	26.1	24.3	-	1.38
2D	12	21.9	21.5	19.7	20.4	20.3	-	1.03
2E	2	22.2	22.1	18.3	26.3		17.2	3.01
3A	3	22.5	22.1	17.4	20.5		19.1	N.S.
3B	3	30.2	27.9	24.7	24.5	_	29.2	N.S.
3C	6	25.7	24.9	21.6	23.2	_	24.1	1.18
3D	4	41.2	34.9	32.7	33.5	_	39.3	2.29
3E	3	23.6	21.8	19.0	19.8	-	23.3	N.S.
3F	3	33.8	36.0	33.5	35.4		36.4	2.21
4A	3	35.0	37.4	32.6	36.8	_	35.2	N.S.
4B	4	30.6	31.1	23.0	28.6	-	31.4	1.97

\*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular zone group.

ticular zone group.
N.S.—Yield differences not significant.

\*\*See zone map, page 48.

Table No. 2. Zones 1A to 2D (except 2A). No consistent pattern is evident in the placing of the varieties in this area, with the exception of Stewart which placed fifth in all of the zones. Thatcher yielded well, placing first in yield in three of these zones and third in the remaining three. Chinook placed first in two zones, second in two, third in one and fourth in one. Selkirk and Ramsey can only be considered on an individual zone basis since their relative position varied considerably from zone to zone.

Zones 2A and 2E to 4B. In this area Thatcher performed well, placing first in seven of the zones and second in two others. However, in two of these zones it placed fourth. The three varieties Lake, Selkirk and Ramsey varied considerably in their placing and can only be compared on an individual zone basis. Stewart was generally outyielded by the other four varieties tested in this area. It placed fifth in seven zones and fourth in three others.

TABLE No. 3—AVERAGE NUMBER OF DAYS FROM SEEDING TO RIPENING SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety							
Zone	Thatcher	Selkirk	Stewart	Ramsey	Chinook	Lake	
1A	98.0	97.6	102.1	101.9	97.6	_	
В	101.5	100.5	109.5	110.0	101.0	-	
C	94.3	94.3	101.0	99.3	94.7		
D	95.1	94.9	99.1	98.6	95.0	-	
Ā	105.5	104.5	110.0	109.5	7.00	106.0	
2B	96.6	97.2	102.8	102.8	98.0		
D	97.2	95.8	102.6	102.2	97.2		
E	93.0	93.0	102.0	102.0		98.5	
A	97.0	95.7	98.7	98.7		96.7	
B	100.3	99.7	106.3	105.0	_	101.3	
6C	104.5	103.5	108.5	108.3		105.8	
SD	101.7	100.7	104.0	103.7		102.0	
E	94.3	93.3	98.7	98.7		95.7	
F	107.0	107:0	113.3	113.3	1 1	106:0	
A	110.0	111.0	111.0	109.0		109.0	
B	106.0	103.0	118.0	117.0		111.0	

Table No. 3. Zones 1A to 2D (except 2A). Selkirk ripened earlier than the other four varieties in three zones, tied for first place in two others and placed second in the remaining zone. On an average basis Thatcher placed second and Chinook third but there was little difference between them. The two durum varieties matured considerably later than the bread wheat with Ramsey generally slightly earlier than Stewart.

Zones 2A and 2E to 4B. In this area Selkirk placed first in seven zones and tied for first place in one additional zone. Thatcher tied for first place in one zone, placed second in seven zones and third in the two remaining zones. Lake was somewhat later than the other two bread wheats but earlier than the durums. Of the two durum varieties, Ramsey generally matured slightly earlier than Stewart.

TABLE No. 4—AVERAGE HEIGHT OF PLANTS IN INCHES SUMMARIZED BY CEREAL VARIETY ZONES

Cereal							
Variety Zone		Thatcher	Selkirk	Stewart	Ramsey	Chinook	Lake
1A		. 23.3	23.5	30.1	28.1	24.2	_
1B		. 27.7	28.0	32.0	32.0	28.7	
1 C		. 18.2	17.3	19.8	20.3	18.0	
1 D		22 7	23.8	28.8	27.2	24.0	
2 A		. 19.0	19.0	24.5	25.5		18.5
2 B		. 25.8	24.8	31.3	30.3	25.8	-
20		26 0	24.4	29.5	27.8	25.6	
2E		. 32.0	32.0	35.0	35.0		33.0
3A	3.00	. 27.8	26.5	35.8	33.0	-	29.3
3B		22 2	34.3	38.3	36.7		34.3
3C		26.8	26.3	30.8	30.5		28.5
3D			28.5	35.0	33.3	_	30.3
3E			27.7	35 0	30.0		29.0
			35.3	44.7	43.0		37.3
3F		31.5	31.5	32.0	33.0	13.	32.5
4B.		30.3	28.3	38.0	36.3	TOTAL TO B	32.0

Table No. 4. Zones 1A to 2D (except 2A). Stewart exceeded the other varieties in height in four of the six zones. It was equal to Ramsey in one zone and was second tallest in the remaining zone. Ramsey was generally shorter than Stewart but taller than the three bread wheats. There were only minor differences in the height of the three remaining varieties, Thatcher, Selkirk and Chinook.

Zones 2A and 2E to 4B. In all but a few of these zones, Stewart grew taller than the other four varieties tested. In general, Ramsey was slightly shorter than Stewart but taller than the bread wheats. The slight differences in height of the remaining three varieties were not economically significant.

TABLE No. 5—AVERAGE STRAW STRENGTH OF PLANTS ON THE BASIS 1 (Strong) to 9 (WEAK)
SUMMARIZED BY CEREAL VARIETY ZONES

Variety Zone	Thatcher	Selkirk	Stewart	Ramsey	Chinook	Lake
1A	1.4	1.4	1.7	1.7	1.5	
1B	1.7	1.9	2.1	2.8	2.6	-
1C	1.9	1.9	3.4	2.5	1.7	
1D.	2.1	2.2	3.0	2.6	1.8	-
2A	1.5	1.5	1.5	1.8		1.5
2B	2.0	2.0	2.3	2.2	2.1	
D	2.8	2.9	3.7	3.3	2.9	
E	5.0	5.0	4.5	5.0		4.5
Α	1.8	1.5	2.4	2.2		1.6
В	1.9	1.5	2.9	2.4		2.0
Č	2.2	1.9	3.4	3.4	- 1	2.0
D	1.5	1.3	2.8	2.5	_	1 4
E	1.9	1.6	4.7	3.0	- 1	1.8
F	3.0	3.0	3.8	3.6		3.5
A	2.4	2.9	5.3	4.9	1 22 3	2.4
В	1 4	1.4	3.6	2.2	22 1	15

Table No. 5. Zones 1A to 2D (except 2A). There was little difference in the straw strength of the three bread wheat varieties tested in this area.

On an average basis they placed in the following order: Thatcher, Selkirk, Chinook. Of the two durum varieties, Ramsey produced somewhat stronger straw than did Stewart.

Zones 2A and 2E to 4B. In this area, as in the southern part of the province, the bread wheats produced straw of satisfactory strength but the durums showed more pronounced weakness in some of the zones. Of the three bread wheats, Selkirk showed generally stronger straw but there was little difference between Thatcher and Lake. Ramsey was generally somewhat stronger than Stewart.

TABLE No. 6—AVERAGE WEIGHT PER MEASURED BUSHEL SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Selkirk	Stewart	Ramsey	Chinook	Lake
1A	59.8	57.5	63.2	63.5	62.4	_
1B	62.0	60.5	64.3	63.5	63.3	-
C	58.1	56.5	62.8	62.8	62.0	-
D	62.7	60.6	63.8	63.9	64.2	-
!A	61.8	59.8	65.0	64.0		60.3
В	61.7	59.9	63.4	63.7	63.7	_
D	63.4	62.3	64.8	64.3	64.7	-
E	62.7	60.7	64.0	65.0		61.7
Α	61.8	60.0	65.0	65.2	-	61.0
<u>B</u>	59.7	57.3	63.0	62.7		58.7
C	62.0	60.2	63.7	63.5	_	59.8
Ď	64.0	62.3	65.5	65.5		62.5
E	63.3	61.7	65.0	64.3	-	62 3
F	63.3	62.5	64.5	64.5	-	62.5
A	62.3	61.0	64.3	64.0	-	61.3
В	63.0	62.3	63.8	64.0		62.3

Table No. 6. Zones 1A to 2D (except 2A). In this area the two durum varieties outweighed the bread wheats, with Ramsey generally showing heavier bushel weight than Stewart. The samples of Chinook weighed up well and were not far below the durum varieties. Thatcher placed fourth and Selkirk placed fifth in all these zones.

Zones 2A and 2E to 4B. Stewart produced the highest bushel weight in five of these zones and tied for first place in two others. It placed second in the three remaining zones in the area. Ramsey placed second on an average basis. Thatcher placed third in all ten of these zones. Lake placed fourth or tied for fourth place in nine of the ten zones. Selkirk showed the lowest bushel weight on the average of the five varieties tested.



Rudolph Bull demonstrates the difference in height of the wheat varieties in his test at Meskanaw.

TABLE No. 7—PERCENTAGE OF COMMERCIAL GRADES BY VARIETIES (Zones 1A to 2D, except 2A)

			/ LOMOS AL		cope win			
Variety		1 Nor. %	2 Nor. %	3 Nor. %	4 Nor. %	No. 4 Sp.	No. 5	No. 5 Sp.
Thatcher Selkirk Stewart		35.7 3.6	42.8 50.0	17.9 28.6	1.8 7.1	8.9	Ξ	1.8
Ramsey		_	-			-	_	
Chinook		69.6	26.8	1.8	1.8	_	-	
Variety			Total		1 C.W.	2 C.W.	3 C.W.	4 C.W.
Thatcher Selkirk						_		_
Stewart Ramsey Chinook					41.0	28.6 35.7	26.8 23.2	3.6
			(Zones 2	A and 2E	to 4B)			
Variety	1 Nor. %	2 Nor.	3 Nor. %	4 Nor.	No. 4 Sp.	No. 5	No. 5 Sp.	No. 6
Thatcher Selkirk Stewart	28.2 10.3	53.8 40.9	7.7 35.9	5.1 5.1	2.6	2.6	2.6	=
Ramsey Lake	2.6	56.4	25.6	5.1	5.1	2.6	=	2.6
Variety		1 C.W.	2 C.W.	3 C.W.	Ex. 4 C.W.	4 C.W.	5 C.W.	6 C.W.
Thatcher		_	-	_	_	H <u>u</u> ni	I FOY I	
Selkirk Stewart Ramsey Lake		25.6 15.4	28.2 28.1	28.2 38.4	2.6	12.8 10.3	2.6	2.6

Table No. 7. Zones 1A to 2D (except 2A). No direct comparison of grade can be made between the durum and the bread wheat varieties because of the different basis of grading. Of the bread wheats, Chinook graded highest with nearly 70% of the samples falling in No. 1 Northern. Thatcher followed with nearly 36% in this grade and Selkirk graded noticeably lower with less than 4% of the samples placing in this grade. Stewart and Ramsey were fairly similar with 41% and 30% of the samples respectively falling in the top durum grade.

Zones 2A and 2E to 4B. In this area Thatcher graded highest of the three bread wheats with 28% of the samples falling in No. 1 Northern. Selkirk followed with 10% in this grade. Only 2.6% of the samples of Lake graded 1 Northern but it should be noted that a high percentage of samples of this variety graded 2 Northern. If the top two grades are considered, Lake and Selkirk are nearly equal. Stewart graded somewhat better than Ramsey in this area with nearly 26% of the samples grading 1 C.W. as compared with 15% for Ramsey.

#### SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

Throughout the grain growing area of Saskatchewan there are wide differences in soil and climatic conditions which affect the performance of varieties. With these differences in mind Cereal Variety Zones have been drawn. Within each of these zones growing conditions are generally similar and varieties can be expected to give a similar response. These tests have been grouped according to Cereal Variety Zones and the following tables report the average results of all those tests located within each zone. Because there are local variations within each zone which affect individual tests, the average results of all tests in the zone can be expected to be more reliable than those of an individual test.

It is a well known fact that there are wide variations in growing conditions in Saskatchewan from year to year, and these variations have an influence on the performance of grain varieties. For this reason, reference is made in the following section to the results of tests conducted over a period of years, where this information is available.

In each zone reference is made to the official recommendations of the Saskatchewan Advisory Council on Grain Crops. These recommendations are made on the basis of tests carried on over a period of years by the Experimental Farms, the University of Saskatchewan, and the Saskatchewan Wheat Pool.

Table No. 8—Summarized Results for Zone 1A
(10 successful tests)

					1 5
47.50	Thatcher	Selkirk	Stewart	Ramsey	Chinook
Yield in bushels per acre*	18.9	18.7	17.0	19.8	19.2
Days from seeding to ripening	98.0	97.6	102.1	101.9	97.6
Height of plants in inches	23.3	23.5	30.1	28.1	24.2"
Straw strength (basis 1-strong to 9-weak)	1.4	1.4	1.7	1.7	1.5
Bushel weight in pounds	59.8	57.5	63.2	63.5	62.4
Commercial grades in percentage: 1 Nor	23.1		_	_	53.8
2 Nor	53.9	38.5			46.2
3 Nor	15.4	23.0			
4 Nor		7.7			
1 5-	_	23.1			
5 Sp	7.6	7.7	4		
1 C.W	_		53.8	38.5	350
2 C.W	_		7.7	38.5	
3 C.W	_		38.5	23.0	21220

<sup>\*</sup> Necessary difference-1.03 bushels.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1A

Ramsey outyielded the other four varieties tested in this zone in 1958, the first year in which it was tested in this zone by the Wheat Pool. It has performed well in other tests in this area and is officially recommended for the zone.

Chinook placed second in yield in 1958. It placed third in 1957 and fourth in 1956. Because of its resistance to sawfly damage it is officially recommended for the zone.

Thatcher placed third in this zone in 1958. It has yielded well in this zone for many years and is officially recommended.

Selkirk placed fourth in 1958 as well as in the years 1955 and 1957. Its rust resistance is not required in most of this zone and it is not recommended.

Stewart was outyielded by the other four varieties in 1958. However, it placed second in 1956 and first in 1955. It has yielded well in other tests in this zone and is officially recommended.

Table No. 9—Summarized Results for Zone 1B

		Thatcher	Selkirk	Stewart	Ramsey	Chinook
Yield in bushels per acre*		23.3	21.6	20.3	21.7	22.1
Days from seeding to ripening		101.5	100.5	109.5	110.0	101.0
Height of plants in inches		27.7	28.0	32.0	32.0	28.7
Straw strength (basis 1-strong to 9-weak)		1.7	1.9	2.1	2.8	2.6
Bushel weight in pounds		62.0	60.5	64.3	63.5	63.3
Commercial grades in percentages:	1 Nor	50.0				75.0
	2 Nor	50.0	100.0	_		25.0
	1 C.W	_		75.0	25.0	
	2 C.W		-	25.0	50.0	
	3 C.W				25.0	_

<sup>\*</sup>Yield differences not significant.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1B

Thatcher placed first in yield in this zone in 1958. It placed second in 1957, first in 1956 and third in 1955. It is officially recommended.

Chinook placed second in yield in 1958, first in 1957 and fourth in 1956. Its resistance to sawfly damage is an important factor in this area and it is officially recommended.

Ramsey placed third in this zone in 1958, the first year in which it was tested in this area by the Wheat Pool. It has yielded well in other tests in the zone and is officially recommended.

Selkirk placed fourth in yield in this zone in 1958. It placed fifth in 1957 and fourth in 1955 when it was previously tested by the Wheat Pool. Selkirk is not recommended for this zone.

Stewart placed fifth in yield in this zone in 1958. However, it performed better in two previous years' tests conducted by the Wheat Pool and in other tests in this zone. It is officially recommended for the zone.

In addition to the varieties mentioned above, Rescue is also officially recommended.

Table No. 10—Summarized Results for Zone 1C

		Thatcher	Selkirk	Stewart	Ramsey	Chinook
Yield in bushels per acre*		12.6	13.5	10.4	11.9	13.7
Days from seeding to ripening		94.3	94.3	101.0	99.3	94.7
Height of plants in inches		18.2	17.3	19.8	20.3	18.0
Straw strength (basis 1-strong to 9-			1.9	3.4	2.5	1.7
Bushel weight in pounds			56.5	62.8	62.8	62.0
Commercial grades in percentages:	1 Nor		_			62.5
	2 Nor		25.0	-	-	37.5
	3 Nor		37.5		-	_
	4 Nor		12.5	_		=
	4 Sp		25.0	_	-	
	1 C.W			37.5	37.5	-
	2 C.W		_	62.5	62.5	

<sup>\*</sup>Necessary difference-.66 bushels.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1C

Chinook placed first in yield in this zone in 1958. It did not yield as well during two previous years tests by the Wheat Pool but its resistance to sawfly damage is a valuable feature in this area. It is officially recommended for the zone.

Selkirk placed second in yield in this zone in 1958. It placed third and fourth in 1955 and 1957 respectively. Selkirk usually does not grade as well as Thatcher and Chinook, it tends to shatter more readily, and since its rust resistance is not an important feature in this area, it is not recommended.

Thatcher placed third in this zone in 1958. It placed first in this zone in each of the two previous years and placed fourth in 1955. It has yielded well in other tests in this zone and is officially recommended.

Ramsey placed fourth in yield in 1958. It has not been tested previously in this zone by the Wheat Pool but in other tests it has yielded well and it is officially recommended.

Stewart was outyielded by the other four varieties tested in this zone in 1958. It placed first in 1955 and fifth in 1956. Stewart has yielded well in other tests in this area and it is officially recommended.

Table No. 11—Summarized Results for Zone 1D

		Thatcher	Selkirk	Stewart	Ramsey	Chinook
Yield in bushels per acre*		16.9	17.2	16.5	16.7	17.7
Days from seeding to ripening		95.1	94.9	99.1	98.6	95.0
Height of plants in inches		23.7	23.8	28.8	27.2	24.0
Straw strength (basis 1-strong to 9-	weak)	2.1	2.2	3.0	2.6	1.8
Bushel weight in pounds		62.7	60.6	63.8	63.9	64.2
Commercial grades in percentages:	1 Nor	66.7	8.3			100.0
	2 Nor		58.4			
	3 Nor	8.3	33.3	-	_	-
	1 C.W			50.0	50.0	-
	3 C.W	-	_	50.0	25.0	_
	4 C.W	-		_	25.0	-

<sup>\*</sup>Necessary difference-.97 bushels.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1D

Chinook placed first in yield in this zone in 1958. It placed fifth during each of the two previous years in which it was tested by the Wheat Pool. However, its resistance to sawfly damage is an important factor in this zone and it is officially recommended.

Selkirk placed second in yield in 1958. It placed second in 1957 and fourth in 1955. Rust resistance is not important in this zone and since Selkirk usually does not grade as well as Thatcher and Chinook and is more likely to shatter, it is not recommended for the zone.

Thatcher placed third in yield in this zone in 1958. It has yielded well in this area for many years and is officially recommended.

Ramsey placed fourth in its first year of testing in this area by the Wheat Pool. However, it has yielded well in other tests conducted in the zone and is officially recommended.

Stewart placed fifth in this zone in 1958, but it outyielded the other varieties tested in both 1955 and 1956. It has yielded well in other tests in this area and is officially recommended.

In addition to the varieties mentioned above, Lake and Rescue are both officially recommended.

Table No. 12—Summarized Results for Zone 2A
(2 successful tests)

		Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*		15.7	14.7	15.3	15.4	15.0
Days from seeding to ripening		105.5	104.5	110.0	109.5	106.0
Height of plants in inches		19.0	19.0	24.5	25.5	18.5
Straw strength (basis 1-strong to 9-		1.5	1.5	1.5	1.8	1.5
Bushel weight in pounds		61.8	59.8	65.0	64.0	60.3
Commercial grades in percentages:	1 Nor	50.0	25.0	_	_	
	2 Nor	50.0	50.0	11 10	-	100.0
	3 Nor	-	25.0		10/	
	1 C.W	-		50.0	25.0	-
	2 C.W		-	50.0	75.0	-

<sup>\*</sup>Yield differences not significant.

#### YIELD PERFORMANCE DURING RECENT YEARS-ZONE 2A

Thatcher outyielded the other varieties tested in this zone in 1958. It has yielded well in this zone in rust-free years but cannot be recommended because of the potential threat of rust in this area.

Ramsey placed second in this zone in 1958. It placed fourth in the previous year but since it is the only high quality rust resistant durum variety available, it is officially recommended for the zone.

Stewart placed third in yield in 1958. It placed first in yield in each of the two previous years but due to its susceptibility to rust, it is not recommended for this zone.

Lake placed fourth in yield in this zone in 1958. It has yielded reasonably well in rust-free years but due to its susceptibility to this disease, it is not officially recommended for this zone.

Selkirk placed fifth of the five varieties tested in this zone in 1958. Its performance in Wheat Pool tests during recent years has been rather variable. Because of the risk of rust in this zone it is the only bread wheat variety recommended for the zone.

Table No. 13—Summarized Results for Zone 2B
(5 successful tests)

The NEW CONTRACTOR		Thatcher	Selkirk	Stewart	Ramsey	Chinook		
Yield in bushels per acre*		26.8	24.0	23.2	26.1	24.3		
Days from seeding to ripening		96.6	97.2	102.8	102.8	98.0		
Height of plants in inches			24.8	31.3	30.3	25.8		
Straw strength (basis 1-strong to 9-			2.0	2.3	2.2	2.1		
Bushel weight in pounds			59.9	63.4	63.7	63.7		
Commercial grades in percentages:	1 Nor		_			71.4		
	2 Nor	28.6	42.8		-	14.3		
	3 Nor	28.6	28.6					
	4 Nor	17722 111	28.6	(P) 1 (2-2) (II)	111	14.3		
not me gift to the end of the	1 C.W	-	-	28.6	14.3			
	2 C.W	100	100	42.8	57.1			
	3 C.W				14.3	N. E		
with that it not me with the	4 C.W	E Remodel	-	28.6	14.3	-		

<sup>\*</sup>Necessary difference-1.38 bushels.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2B

Thatcher outyielded the other four varieties tested in this zone in 1958. It placed first in 1957, second in 1956 and fourth in 1955. It is officially recommended for the zone.

Ramsey placed second in yield in its first year of testing by the Wheat Pool in this area. It has performed well in other tests and is officially recommended.

Chinook placed third in yield in 1958. It placed fifth in each of the two previous years but has performed well in other tests conducted in this area and is officially recommended.

Selkirk placed fourth in this zone in 1958. It placed second in 1957 and third in 1955. Selkirk is officially recommended for this zone.

Stewart placed fifth of the varieties tested in 1958 but it placed first in both 1955 and 1956. Since the risk of rust in this zone is not particularly serious it is officially recommended in addition to Ramsey.

#### Cereal Variety Zone 2C

No successful wheat tests were conducted in this small zone in 1958. Rescue Thatcher and Stewart are officially recommended for this zone.

Table No. 14—Summarized Results for Zone 2D

		Thatcher	Selkirk	Stewart	Ramsey	Chinook
Yield in bushels per acre*		21.9	21.5	19.7	20.4	. 20.3
Days from seeding to ripening		97.2	95.8	102.6	102.2	97.2
Height of plants in inches		26.0	24.4	29.5	27.8	25.6
Straw strength (basis 1-strong to 9-	weak)	2.8	2.9	3.7	3.3	2.9
Bushel weight in pounds		63.4	62.3	64.8	64.3	64.7
Commercial grades in percentages:	1 Nor	33.3	8.3			.58.3
	2 Nor	41.7	58.3	-	-	33.3
	3 Nor	25.0	33.4	_	_	8.4
	1 C.W	_	_	16.7	8.3	_
	2 C.W	-	-	50.0	33.3	_
	3 C.W		-	33.3	41.7	
	4 C.W	_	_		16.7	-

<sup>\*</sup>Necessary difference-1.03 bushels.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2D

Thatcher outyielded the other four varieties tested in this zone in 1958. It placed second in 1955, first in 1956 and tied for third place in 1957. It is officially recommended for the zone.

Selkirk placed second in yield in 1958. During the previous year it tied for third place and in 1955 it placed fourth. Since Selkirk usually does not grade as well as Thatcher or Chinook and since its rust resistance is not required in this area it is not recommended.

Ramsey placed third in this zone in its first year of testing by the Wheat Pool. It has yielded well in other tests in this area and is officially recommended.

Chinook placed fourth in this zone in 1958. It placed fifth in each of the two previous years. While it is somewhat lower in yield than several other varieties, its sawfly resistance is a valuable feature in this zone and for this reason it is officially recommended.

Stewart placed fifth in yield in this zone in 1958. It placed fourth in 1956 but ranked first in 1955. It has yielded well in other tests in this area and is officially recommended.

In addition to the varieties mentioned above, Lake is also officially recommended.

Table No. 15—Summarized Results for Zone 2E

		Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*		22.2	22.1	18.3	26.3	17.2
Days from seeding to ripening		93.0	93.0	102.0	102.0	98.5
Height of plants in inches			32.0	35.0	35.0	33.0
Straw strength (basis 1-strong to 9-			5.0	4.5	5.0	4.5
Bushel weight in pounds			60.7	64.0	65.0	61.7
Commercial grades in percentages:	1 Nor	33.3				
	2 Nor	66.7	66.7	-		100.0
	3 Nor		33.3			
	1 C.W		1 177	33.4	33.4	_
	2 C.W	_	-	33.3	33.3	
	3 C.W	17		33.3	33.3	_

<sup>\*</sup>Necessary difference-3.01 bushels.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2E

Ramsey outyielded the other four varieties tested in this zone in 1958. It placed third in 1957. Since it is the only rust resistant high quality durum variety available, it is officially recommended for this zone.

Thatcher placed second in yield in 1958. It placed fourth in both 1955 and 1957. Because of the risk of rust in this zone, it is not recommended.

Selkirk ranked third in 1958. It ranked fifth in 1957 and first in 1955. Selkirk is officially recommended for this zone because of its rust resistance.

Stewart placed fourth in yield in 1958. It placed first in the previous year but because of its rust susceptibility, it is not recommended for the zone.

Lake was outyielded by the other four varieties tested in 1958. This variety, like Stewart, is susceptible to rust and cannot be recommended for this zone.

Table No. 16—Summarized Results for Zone 3A
(3 successful tests)

Vista in brookele was a ana's		Thatcher 22.5	Selkirk 22.1	Stewart 17.4	Ramsey 20.5	Lake 19.1
Yield in bushels per acre*		97.0	95.7	98.7	98.7	96.7
Days from seeding to ripening		27.8	26.5	35.8	33.0	29.3
Straw strength (basis 1-strong to 9-weak)		1.8	1.5	2.4	2.2	1.6
Bushel weight in pounds		61.8	60.0	65.0	65.2	61.0
Commercial grades in percentages:	2 Nor	100.0	40.0			60.0
Sommercial Branco in Personal	3 Nor	_	60.0	-		40.0
	1 C.W		100	20.0	20.0	
	2 C.W	-	-	60.0	40.0	
	3 C.W	-		20.0	40.0	

<sup>\*</sup>Yield differences not significant.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3A

Thatcher placed first in yield in this zone in 1957 and 1958. It placed third in each of the two previous years. Because of the rust hazard, Thatcher is not recommended for this zone.

Selkirk placed second in this zone in 1958. It ranked either first or second in each of the previous three years. It is officially recommended for the zone.

Ramsey placed third in this zone both in 1957 and 1958. It is the only rust resistant, high quality durum variety available and is officially recommended for the zone.

Lake ranked fourth in this zone in 1958. It placed fourth in 1956 and fifth in 1957. Because of its rust susceptibility, it is not recommended for this zone.

Stewart was outyielded by the other four varieties tested in this zone in 1958. As mentioned in the discussion on Zone 2E, this variety is susceptible to rust and so cannot be recommended for this zone.

Table No. 17—Summarized Results for Zone 3B
(3 successful tests)

		Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*		30.2	27.9	24.7	24.5	29.2
Days from seeding to ripening		100.3	99.7	106.3	105.0	101.3
Height of plants in inches		33.3	34.3	38.3	36.7	34.3
Straw strength (basis 1-strong to 9-		1.9	1.5	2.9	2.4	2.0
Bushel weight in pounds		59.7	57.3	63.0	62.7	58.7
Commercial grades in percentages:	1 Nor	33.3	_	_		-
Sommercial grades in percentageor	2 Nor	33.3	33.3	_		33.3
	3 Nor		33.3		_	33.3
	4 Sp	33.4		_		33.4
	5 Sp		33.4		_	
	2 C.W	-		33.3	33.3	1 16.
	3 C.W	_	_	66.7	66.7	4

<sup>\*</sup>Yield differences not significant.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3B

Thatcher placed first in yield in this zone in 1958. It has yielded quite well in this zone under rust-free conditions during recent years, but since the

zone is in an area which is frequently subject to rust, Thatcher cannot be recommended.

Lake placed second in yield in 1958. It placed third in 1956 and fourth in 1957. Because of its rust susceptibility, it is not officially recommended for this zone.

Selkirk placed third in this zone in 1958. It ranked first in 1956 and second in 1955 and 1957. It is officially recommended for this zone.

Stewart ranked fourth in this zone in 1958. Because of its rust susceptibility, it is not recommended for the zone.

Ramsey placed fifth in this zone in both 1957 and 1958. However, because of its rust resistance, it is officially recommended for this zone.

Table No. 18—Summarized Results for Zone 3C
(6 successful tests)

		Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*		25.7	24.9	21.6	23.2	24.1
Days from seeding to ripening		104.5	103.5	108.5	108.3	105.8
Height of plants in inches		26.8	26.3	30.8	30.5	28.5
Straw strength (basis 1-strong to 9-		2.2	1.9	3.4	3.4	2.0
Bushel weight in pounds		62.0	60.2	63.7	63.5	59.8
Commercial grades in percentages:	1 Nor	16.7	_	_		-
	2 Nor	66.6	66.6	-		66.6
	3 Nor	16.7	16.7	the same of the last of the la	I was to be a state of	16.7
	4 Sp	-	16.7		and second delication	16.7
	2 C.W	_	1	50.0	33.3	
	3 C.W		-4	50.0	50.0	
	4 C.W	_	W		16.7	

<sup>\*</sup>Necessary difference-1.18 bushels.

#### YIELD PERFORMANCE DURING RECENT YEARS-ZONE 3C

Thatcher placed first in yield in this zone in 1958. It placed either second or third in each of the three previous years. Due to its rust susceptibility, it is not officially recommended for this zone.

Selkirk placed second in this zone in 1958. It placed second in 1955, first in 1956 and third in 1957. Because of its rust resistance, it is officially recommended for the zone.

Lake ranked third in this zone in 1958. It placed fourth of the five varieties tested in each of the two previous years. Lake is not recommended for this zone.

Ramsey placed fourth in 1958 and fifth in the previous year. However, since it is the only high quality, rust resistant durum variety available, it is officially recommended for this zone.

Stewart was outyielded by the other four varieties tested in this zone in 1958. It performed better in the previous two years but due to its susceptibility to rust, it is not recommended for this zone.

Table No. 19—Summarized Results for Zone 3D
(4 successful tests)

		Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*		41.2	34.9	32.7	33.5	39.3
Days from seeding to ripening		101.7	100.7	104.0	103.7	102.0
Height of plants in inches		28.8	28.5	35.0	33.3	30.3
Straw strength (basis 1-strong to 9-	weak)	1.5	1.3	2.8	2.5	1.4
Bushel weight in pounds		64.0	62.3	65.5	65.5	62.5
Commercial grades in percentages:	1 Nor	50.0				25.0
	2 Nor	50.0	75.0	_	-	75.0
	3 Nor		25.0			_
	1 C.W		-	75.0	25.0	
	2 C.W			_	25.0	-
	3 C.W	-		25.0	50.0	-

<sup>\*</sup>Necessary difference-2.29 bushels.

#### YIELD PERFORMANCE DURING RECENT YEARS-ZONE 3D

Thatcher outyielded the other four varieties tested in this zone in each of the last three years. It has yielded well in this area of the province for many years and is officially recommended for the zone.

Lake placed second in this zone in 1958 and third in each of the previous two years. It has yielded well in other tests in this area and is officially recommended.

Selkirk ranked third in 1958. It placed third in 1955 and second in both 1956 and 1957. Selkirk is officially recommended for the zone.

Ramsey placed fourth in 1958 and fifth in the previous year. Because of the risk of frost in this zone, this late maturing variety is not recommended.

Stewart was outyielded by the other four varieties tested in 1958. It did not yield well in the two previous years and because of its late maturity, it is not recommended.

Table No. 20—Summarized Results for Zone 3E
(3 successful tests)

		Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*		23.6	21.8	19.0	19.8	23.3
Days from seeding to ripening		94.3	93.3	98.7	98.7	95.7
Height of plants in inches		28.3	27.7	35.0	30.0	29.0
Straw strength (basis 1-strong to 9-		1.9	1.6	4.7	3.0	1.8
Bushel weight in pounds		63.3	61.7	65.0	64.3	62.3
Commercial grades in percentages:	1 Nor	66.7	·	_	_	
Commercial Brades in personnages.	2 Nor	33.3	100.0	_	_	100.0
	1 C.W		_	66.7	- 33.3	_
	2 C.W			33.3	33.3	_
	3 C.W	-	-		33.4	-

<sup>\*</sup>Yield differences not significant.

#### YIELD PERFORMANCE DURING RECENT YEARS-ZONE 3E

Thatcher outyielded the other four varieties tested in this zone in 1958. It placed second in each of the two previous years. Thatcher is well adapted to this zone and is officially recommended.

Lake placed second in yield in this zone in 1958. It placed first in 1957 and fourth in 1956. It has performed well in other tests in this area and is officially recommended.

Selkirk placed third in this zone in 1958. It placed fourth in 1957 and first in 1956. Since Selkirk's rust resistance is not required in this zone and since it tends to be lower in grade than Thatcher, it is not recommended.

Ramsey and Stewart ranked fourth and fifth respectively. Neither of these varieties yielded well in this zone in the previous year's tests and because of their late maturity, they are not recommended for this zone.

Table No. 21—Summarized Results for Zone 3F
(3 successful tests)

		Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*		33.8	36.0	33.5	35.4	36.4
Days from seeding to ripening		107.0	107.0	113.3	113.3	106.0
Height of plants in inches		35.7	35.3	44.7	43.0	37.3
Straw strength (basis 1-strong to 9-	weak)	3.0	3.0	3.8	3.6	3.5
Bushel weight in pounds		63.3	62.5	64.5	64.5	62.5
Commercial grades in percentages:	1 Nor	25.0			- 1)	- 1 114
Commercial grades in percentages.	2 Nor	25.0	25.0			a Links
	3 Nor	25.0	50.0		_	50.0
	4 Nor	25.0	25.0			50.0
	3 C.W			25.0	50.0	_
	Ex. 4 C.W.	-	. —	25.0	25.0	_
	4 C.W	_		50.0	_	-
	5 C.W		_	_	25.0	

<sup>\*</sup>Necessary difference-2.21 bushels.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3F

Lake placed first in yield in this zone in 1958. It yielded quite well in Wheat Pool tests in the two previous years, but is somewhat late maturing for this zone. It is not officially recommended for zone 3F.

Selkirk placed second in this zone in 1958. Its performance has varied somewhat in Wheat Pool tests over the past several years. In 1955 it placed third, in 1956 it placed second and in 1957 it placed fifth. It has yielded well in other tests and is officially recommended for the zone.

Ramsey placed third in this zone in each of the last two years. However, its late maturity is a serious handicap for northern areas and it is not recommended in this zone.

Thatcher placed fourth in this zone in both 1957 and 1958. However, it placed first in 1956 and second in 1955. It has yielded well in other tests in this area and is officially recommended.

Stewart was outyielded by the other four varieties tested in this zone in 1958. Like Ramsey, it is quite late maturing and is not suitable for this zone.

#### Cereal Variety Zone 3G

Only one successful test was located in this zone in 1958. It was conducted by Rene Lacoursiere of Highgate and can be found in the section "Individual Summarized Results of all Tests—Wheat" on page 31. Lake, Selkirk and Thatcher are officially recommended for this zone.

#### Cereal Variety Zone 3H

Only one successful test was located in this zone in 1958. It was conducted by Dale Madden of South Makwa and can be found in the section "Individual Summarized Results of all Tests—Wheat" on page 34. Lake, Selkirk and Thatcher are officially recommended for the zone.

#### Cereal Variety Zone 3J

Only one wheat test was located in this zone in 1958. It was conducted by David Goodman of Crutwell and can be found in the section "Individual Summarized Results of all Tests—Wheat" on page 33. Lake, Selkirk and Thatcher are officially recommended for the zone.

Table No. 22—Summarized Results for Zone 4A
(3 successful tests)

		Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*		35.0	37.4	32.6	36.8	35.2
Days from seeding to ripening		110.0	111.0	111.0	109.0	109.0
Height of plants in inches		31.5	31.5	32.0	33.0	32.5
Straw strength (basis 1-strong to 9-		2.4	2.9	5.3	4.9	2.4
Bushel weight in pounds		62.3	61.0	64.3	64.0	61.3
Commercial grades in percentages:	1 Nor	33.3				
	2 Nor	33.3	33.3	-		33.3
	3 Nor	_	33.3	-	-	33.3
	No. 5	-	33.4	_	-	
	No. 6	33.4		_		33.4
	1 C.W			33.3	33.3	=
	4 C.W		-	33.3	33.3	
	6 C.W		-	33.4	33.4	_

<sup>\*</sup>Yield differences not significant.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 4A

Selkirk outyielded the other four varieties tested in this zone in 1958. It yielded well in Wheat Pool tests in this zone during the three previous years. Selkirk is officially recommended for the zone.

Ramsey ranked second in this zone in 1958. However, it placed fifth of the five varieties tested in 1957. Because of its late maturity it is not recommended for the zone.

Lake placed third in yield in this zone in 1958. It placed first in 1957 and third in 1956. Lake appears well adapted to this zone and is officially recommended.

Thatcher placed fourth in yield in this zone in 1958. It yielded quite well in this zone in several previous years, placing second in 1955 and 1956 and third in 1957. Thatcher is officially recommended for the zone.

Stewart was outyielded by the other four varieties tested in 1958. It placed fifth in 1956 and fourth in 1957. Because of its late maturity it is not recommended for the zone.

Table No. 23—Summarized Results for Zone 4B

		Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*	1	30.6	31.1	23.0	28.6	31.4
Days from seeding to ripening		106.0	103.0	118.0	117.0	111.0
Height of plants in inches			28.3	38.0	36.3	32.0
Straw strength (basis 1-strong to 9-			1.4	3.6	2.2	1.5
Bushel weight in pounds		63.0	62.3	63.8	64.0	62.3
Commercial grades in percentages:	2 Nor	50.0	1000			
Service Service In Ferrender.	3 Nor	25.0	75.0			75.0
	4 Nor	25.0	25.0			
	No. 5					25.0
	3 C.W		-	50.0	50.0	
april 1 a V. All a	4 C.W		21 77	50.0	50.0	

<sup>\*</sup>Necessary difference-1.97 bushels.

#### YIELD PERFORMANCE DURING RECENT YEARS-ZONE 4B

Lake outyielded the other four varieties tested in this zone in 1958. It placed second in 1956 and third in 1957. Lake appears well adapted to this zone and is officially recommended.

Selkirk placed second in this zone in 1958. It placed first in 1956 and fourth in 1957. It has yielded well in other tests in this area and is officially recommended.

Thatcher placed third in this zone in 1958. It placed third in 1956 and second in 1957. Thatcher is officially recommended for the zone.

Ramsey and Stewart placed fourth and fifth respectively in this zone in 1958. Because of their late maturity, neither of these varieties is recommended for the zone.



Lloyd Nelson of Simpson standing in front of his wheat test.

#### Individual Summarized Results of All Tests-Wheat

The results of all successful wheat tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 7, headed, "Facts to Be Remembered in Reading and Studying Results.'

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization According to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

For an explanation of the abbreviations under "Grading Remarks," see page 8.

WHEAT BOOK DISTRICT 1

			W	HEAT	POOL D	DISTRIC	CT 1			
Cereal Variety Zone	Dist.	Sub- Dist	. Varieties	Yield bus. per acre	Days seeding to ripening		Straw strength		Com- mercial grades	Grading remarks
		-	RO	BERT G	. VANSTO	NE. CARI	VDUFF			
3A	1	1	Thatcher		100	20	1.0	. 59	2 Nor.	-
			Selkirk	-	98	19	1.0	57	3 Nor.	A 100
			Stewart	_	101	28	1.0	64	2 C.W.	
			Ramsey	- 7	100	27	1.0	64	3 C.W.	I.
Test damaged	hy ch	ntteri	Lakeng—yields not	reliable	98 Painfall A	20 10v to Aug	1.0	59	2 Nor.	I., D.
	by SII	atterr						iiches.		
3A	1	2	Thatcher		E. LORETT	E, FERT	1LE 2.0	60	2 Nor.	I.
)A	1	2	Selkirk		-	300	2.0	58	3 Nor.	la contract
			Stewart	7.7			3.0	65	2 C.W.	i.
			Ramsey	8.8	10 20 12		2.5	65	2 C.W.	i.
			Lake	5.5			2.0	59	3 Nor.	I.
Yield difference	es not	signi	ificant. Rainfa		to August 5.	04 inches.	2.0	10 10 10 10 10 10 10 10 10 10 10 10 10 1	3 1401.	1.
			ST	ANLEV	G. BARNA	RD WILL	MAR			
3A	1	4	Thatcher		94	27	1.0	63	2 Nor.	I.
			Selkirk	11.0	93	26	1.0	61	2 Nor.	I. Live
			Stewart	10.9	98	33	1.0	65	2 C.W.	Ĩ.
			Ramsey	14.0	99	30	1.0	66	2 C.W.	Î.
			Lake	11.8	95		1.0	62	2 Nor.	I.
Yield difference	es not	signi	ficant. Rainfa							
	14		M	ARILVN	D. RAYNA	ARD REN	SON			
2A	- 1	5	Thatcher	13.3	D. KAINA	IND, BEI	BON	60	2 Nor.	BI.
۵۸	1	,	Selkirk	13.5	. I.			58	2 Nor.	DI.
			Stewart	14.8				65	1 C.W.	
			Ramsey	14.5	100000		The Residence	64	1 C.W.	
			Lake	11.9			to alread	59	2 Nor.	- 9
Yield difference	es not	signi	ficant. Rainfa		incomplete.			1	2 1401.	
				G. BRI	AN KEEFE	GRIFFI	N			
2 A	1	8	Thatcher	14.4	110	19	1.0	64	1 Nor.	
			Selkirk	10.2	110	20	1.0	61	2 Nor.	I.
			Stewart	13.8	112	25	1.0	65	2 C.W.	Ĩ.
			Ramsey	11.1	112	27	1.0	65	2 C.W. 2 C.W.	I.
			Lake	13.9	110	19	1.0	63	2 Nor.	I.
Test damaged l	oy liv	estoc								
	1			ALLAN I	D. BRIGDE	EN. KISBI	EY	11911		
2 A	1	9	Thatcher	38.1				60	2 Nor.	BI.
			Selkirk	32.5	-	-		58	3 Nor.	I.
			Stewart	35.9	_			65	2 C.W.	I.
			Ramsey	39.3	-	112		63	2 C.W.	I
			Lake	24.7		-	-	59	2 Nor.	
Thatcher samp	les bu	lked-	-yields not inc		one summar	y. Rainfa	ll record is	ncomplete.		
Tests 2A 2A		6	d on account Melvin Eggun Glen S. McLeo	, Halbrite	e	ng, pests,	hail, dro	ought or ot	her cause	s.
			W	HEAT	POOL D	ISTRI	CT 2	1100	100	15 11 14 3
	10.57				CALLADI	NE, RAD	VILLE			
2A	2	1	Thatcher	18.1	101	19	2.0	63	1 Nor.	-
			Selkirk	15.8	99	18	2.0	62	1 Nor.	
			Stewart	15.7	108	24	2.0	65	1 C.W.	
			Ramsey	16.3	107	24	2.5	64	2 C.W.	D.
Yield difference			Ramsey Lake	18.0	102	18	2.5	64	2 C.W. 2 Nor.	D. I.

#### Wheat Pool District 2-Continued

Cereal Variety Zone		Sub-		Yield bus. per acre	Days seeding to ripening				Com- mercial grades	Grading
Yield differe	2		Thatcher	13.3 13.0 13.1 13.4 14.2	C. KIRBY, 97 97 97 99 97 to August 3.	22 22 33 26 23	1.0 1.0 3.0 1.8 1.0	63 62 63 64 64	1 Nor. 2 Nor. 3 C.W. 3 C.W. 1 Nor.	I. G., I. I., D.
HO. /	7	1	JOH	NNIE O.	PITULEY	JR., KII	LDEER	Ten 22. 1	LONE	
Test damage	ed by di	rough	ThatcherSelkirkStewartRamseyChinookt and shatterin to calculate bu	g—yields	not reliable.	14 14 14 14 14	1.3 1.3 2.3 1.3 2.0	53 53 (A)* (A)* 58 omplete.	4 Sp. 4 Sp. ————————————————————————————————————	
()		9.0				CONC	DECC			
1A			Thatcher Selkirk Stewart Ramsey Chinook	26.1 26.2 24.8 28.5 26.6	P. BADECI	- CONG.	RESS	60 57 64 64 63	2 Nor. 3 Nor. 2 C.W. 2 C.W. 1 Nor.	I. I. I.
Yield differe	nces no	t sign	ificant. Rainf	all record	incomplete.					
Necessary di			Thatcher	47.7 47.6 38.8 48.4 44.4	87 87 87 93 93 87 ay to Augus	34 33 44 40 36	1.3 1.0 1.7 1.0 1.3	65 63 67 67 65	2 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor.	I. I. I. I. I.
1AYield differe			Thatcher Selkirk Stewart Ramsey Chinook ificant. Rainf	14.3 17.3 13.8 17.8 17.7	104 112 111 103	24 26 32 29 26	1.3 2.0 1.5 3.3 1.8	62 60 64 65 64	1 Nor. 2 Nor. 1 C.W. 1 C.W. 1 Nor.	<u>I.</u>
1A	2	11		8.8 11.7 12.7 14.2 7.9	7. HOLT, B 101 101 108 108 101	27 27 27 38 38 27	2.0 2.0 1.0 1.0 1.8	57 57 64 65 62	3 Nor. 3 Nor. 1 C.W. 1 C.W. 1 Nor.	=======================================
Te	ests dis	carde	ed on account Leo J. Frischl H. Lowrence	of dama	ge by flood	ng, pests	, hail, dro	ought or o	ther cause	es.
			w	HEAT	POOL D	ISTRI	СТ З			
1C		1 2-2.4	Thatcher Selkirk Stewart Ramsey Chinook 5 bushels. Ra	11.0 13.0 6.6 10.1 13.9	TE MORIN,	=	TD	56 54 60 60 60	4 Nor. 4 Sp. 2 C.W. 2 C.W. 2 Nor.	  B1.
1C	3	2		AINE T.	R. GEIGE 101 101 100 102 101	R, ROSE 16 15 21 19 17	3.8 3.5 3.3 3.3 2.8	57 54 62 62 61 s.	3 Nor. 4 Sp. 2 C.W. 2 C.W. 1 Nor.	
1C	3	3	Thatcher	WAYN 13.3 14.3 12.5 14.0 14.1	E BURKE,		1000	58 58 62 62 63	2 Nor. 2 Nor. 1 C.W. 1 C.W. 1 Nor.	

#### Wheat Pool District 3—Continued

Cereal Variety Zone	Dist.	Sub- Dist		Yield bus. per acre	Days seeding to ripening	Plant height in inches			Com- mercial grades	Grading
181			10.	E. RUNI	E HANSON	FRONT	IER	pull ven SY		
1C	3	4	Thatcher	8.4	10	15	2.0	60	2 Nor.	I.
			Selkirk		-	14 17	2.0	59 63	2 Nor.	
			Stewart Ramsey			20	3.0	63	1 C.W. 2 C.W.	D.
		gil in	Chinook	9.3	And Service	14	1.0	63	1 Nor.	estill salge
Yield difference	es not	sign	ificant. Rain	fall—May	to August 3.	17.	alteria.			
1C	3	6	Thatcher	JAMES P 16.9	. WOLD, R	AVENSCE 22	1.8	59	3 Nor.	I.
			Selkirk	17.9		21	1.3	57	3 Nor.	-
			Stewart		102	22	3.0	64	2 C.W. 2 C.W.	Į.
			Ramsey			22 21	1.8	63	2 C.W. 2 Nor.	I.
Samples incom	plete-	-yiel	ds not include	d in zone s	ummary. R				ches.	L. Artis
			DOT	JGLAS W	. JACOBSO	N, CHAN	BURY	Depaytie	1	
1C	3	7	Thatcher	15.3 15.9	_	_	_	58 56	2 Nor. 4 Nor.	_
			Selkirk Stewart		LSIG TO	OSETA	SI MEN	63	2 C.W.	I.
			Ramsey	14.0	and a second		_	63	2 C.W. 2 C.W.	Î.
Naganages diffe	ronco	11	Chinook		ud incomplet	_	1000	63	1 Nor.	-
Necessary diffe	rence	-1.1	5 busnels. Ra	ainiaii reco	ra incomplet	e.	E and a second	Jedden		
IC	3	8	Thatcher		NDERSON,	SHAUNA 18	2.5	59	2 Nor.	10
			Selkirk	13.7	V	16	2.5	57	3 Nor.	-
			Stewart		-	20	5.0	64	1 C.W.	-
			Ramsey		C. CENTRAL	21 17	3.3	64	1 C.W. 1 Nor.	
Yield difference	s not	sign	ficant. Rains	fall—May	to August 3.2	23 inches.	1.0	02	111011	
	1.1		E	BARRY A	RAYMON	D. ANER	OID	Vancot take		
1C	3	10	Thatcher	12 0	92	24	1.0	58	2 Nor.	
	-	10	I Hatchel	13.8						
	-	10	Selkirk	15.0	92	24	1.0	57	3 Nor.	C+
		10	Selkirk Stewart	15.0 12.7	92 101	24 25	1.0	57 64	3 Nor.	St.
			Selkirk Stewart Ramsey Chinook	15.0 12.7 12.8 15.2	92 101 101 92	24 25 26 25	1.0 2.5 2.0 1.0	57		St. Bl.
Necessary diffe			Selkirk Stewart Ramsey Chinook	15.0 12.7 12.8 15.2	92 101 101 92	24 25 26 25	1.0 2.5 2.0 1.0	57 64 65	3 Nor. 2 C.W. 1 C.W.	
	rence	—1.4 arde	Selkirk Stewart Ramsey Chinook	15.0 12.7 12.8 15.2 ainfall—Ma	92 101 101 92 ay to August	24 25 26 25 5.11 inche	1.0 2.5 2.0 1.0	57 64 65 61	3 Nor. 2 C.W. 1 C.W. 2 Nor.	BI.
Tests	rence	—1.4 arde	Selkirk	15.0 12.7 12.8 15.2 ainfall—Ma	92 101 101 92 ay to August	24 25 26 25 5.11 inche	1.0 2.5 2.0 1.0	57 64 65 61	3 Nor. 2 C.W. 1 C.W. 2 Nor.	BI.
Tests	rence	—1.4 arde	Selkirk	15.0 12.7 12.8 15.2 ainfall—Ma	92 101 101 92 ay to August	24 25 26 25 5.11 inche	1.0 2.5 2.0 1.0 s.	57 64 65 61	3 Nor. 2 C.W. 1 C.W. 2 Nor.	BI.
1C	rence-	—1.4 arde 9	Selkirk. Stewart Ramsey Chinook O bushels. Re d on account Leslie J. Nelso	15.0 12.7 12.8 15.2 sinfall—Mar of damag on, Admira	92 101 101 92 ay to August ce by floodin	24 25 26 25 5.11 inche	1.0 2.5 2.0 1.0 s.	57 64 65 61 ught or ot	3 Nor. 2 C.W. 1 C.W. 2 Nor.	B1.
Tests	rence-	—1.4 arde	SelkirkStewartRamsey	15.0 12.7 12.8 15.2 ainfall—Ma of damagon, Admira	92 101 101 92 ay to August ge by floodin 1.	24 25 26 25 5.11 inche	1.0 2.5 2.0 1.0 s.	57 64 65 61 ught or ot	3 Nor. 2 C.W. 1 C.W. 2 Nor. her cause	BI.
1C	rence-	—1.4 arde 9	Selkirk	15.0 12.7 12.8 15.2 ainfall—Ma of damas on, Admira	92 101 101 92 ay to August ge by floodin 1.	24 25 26 25 5.11 inche	1.0 2.5 2.0 1.0 s.	57 64 65 61 <b>ught or ot</b>	3 Nor. 2 C.W. 1 C.W. 2 Nor. her cause	B1.
Tests	rence-	—1.4 arde 9	SelkirkStewartRamsey	15.0 12.7 12.8 15.2 ainfall—Ma of damagon, Admira THEAT UDREY I. 22.3 20.4 20.4	92 101 101 92 ay to August ge by floodin 1.	24 25 26 25 5.11 inche	1.0 2.5 2.0 1.0 s.	57 64 65 61 <b>ught or ot</b>	3 Nor. 2 C.W. 1 C.W. 2 Nor. her cause	BI.
Tests	disc: 3	-1.4 arde 9	Selkirk. Stewart	15.0 12.7 12.8 15.2 ainfall—Ma of damag on, Admira THEAT UDREY I. 22.3 20.4 23.1 21.2	92 101 101 92 se by floodin i.	24 25 26 225 5.11 inche ng, pests,	1.0 2.5 2.0 1.0 s.	61 60 65 61	3 Nor. 2 C.W. 1 C.W. 2 Nor. her cause 2 Nor. 2 Nor. 1 C.W.	BI.
Tests	disc: 3	-1.4 arde 9	Selkirk. Stewart	15.0 12.7 12.8 15.2 ainfall—Ma of damag on, Admira THEAT UDREY I. 22.3 20.4 23.1 21.2	92 101 101 92 se by floodin i.	24 25 26 225 5.11 inche ng, pests,	1.0 2.5 2.0 1.0 s.	61 60 65 65	3 Nor. 2 C.W. 1 C.W. 2 Nor. her cause 2 Nor. 2 Nor. 1 C.W. 1 C.W.	BI.
Tests	rence- s discs 3	-1.4 arde 9	Selkirk. Stewart. Ramsey. Chinook. O bushels. Re d on account Leslie J. Nelsc  W  Thatcher. Selkirk. Stewart. Ramsey. Chinook. ficant. Rainf	15.0 12.7 12.8 15.2 ainfall—Ma of damag on, Admira UDREY I. 22.3 20.4 23.1 21.2 fall—May	92 101 101 92 ay to August te by floodin i.  POOL D  JOHNSTO  Co August 3.4	24 25 26 26 27 5.11 inche ng, pests, ISTRIC N, BEVEL 49 inches.	1.0 2.5 2.0 1.0 s. hail, dro	61 60 65 63 61	3 Nor. 2 C.W. 1 C.W. 2 Nor. her cause 2 Nor. 2 Nor. 1 C.W. 1 C.W.	BI.
Tests	disc: 3	-1.4 arde 9	Selkirk. Stewart	15.0 12.7 12.8 15.2 15.2 15.2 15.2 16.2	92 101 101 92 ay to August te by floodin i.  POOL D  JOHNSTO  Co August 3.4	24 25 26 25 5.11 inche ng, pests, ISTRIC N, BEVEL ———————————————————————————————————	1.0 2.5 2.0 1.0 s. hail, dro	61 65 63 61 <b>ught or ot</b>	3 Nor. 2 C.W. 1 C.W. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 1 C.W. 1 C.W. 1 Nor.	Bl. I
Tests  IB	rence- s discs 3	-1.4 arde 9	Selkirk. Stewart. Ramsey. Chinook. O bushels. Re d on account Leslie J. Nelsc  W  Thatcher. Selkirk. Stewart. Ramsey. Chinook. ficant. Rainf	15.0 12.7 12.8 15.2 15.2 15.2 16.2	92 101 101 92 ay to August te by floodin i.  POOL D  JOHNSTO  Co August 3.4	24 25 26 25 5.11 inche ng, pests, ISTRIC N, BEVEL 	1.0 2.5 2.0 1.0 s. hail, dro	61 60 65 63 61	3 Nor. 2 C.W. 1 C.W. 2 Nor. her cause 2 Nor. 2 Nor. 1 C.W. 1 C.W. 1 Nor.	Bl. I
Tests  IB	rence- s discs 3	-1.4 arde 9	Selkirk. Stewart Ramsey Chinook O bushels. Re d on account Leslie J. Nelso  W  Thatcher Selkirk Stewart Ramsey Chinook ficant. Rainf  Thatcher Selkirk Stewart Ramsey Stewart Ramsey	15.0 12.7 12.8 15.2 15.2 15.2 15.2 16.2	92 101 101 92 ay to August te by floodin i.  POOL D  JOHNSTO  Co August 3.4	24 25 26 25 5.11 inche ng, pests, PISTRIC N, BEVEL 	1.0 2.5 2.0 1.0 s. hail, dro	61 60 65 63 61 61 60 65 63	3 Nor. 2 C.W. 1 C.W. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 1 C.W. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor.	Bl. I
Tests  1B  Yield difference	4 4	-1.4 arde 9	Selkirk. Stewart	15.0 12.7 12.8 15.2 15.2 15.2 16.2 16.2 16.2 17.2 17.2 17.2 18.2 19.8 21.8 21.8 21.8 21.8 21.8	92 101 101 92 ay to August te by floodin i.  POOL D  JOHNSTO  Co August 3.4  ROOSEN,	24 25 26 25 5.11 inche ng, pests, ISTRIC N, BEVEL 	1.0 2.5 2.0 1.0 s. hail, dro	61 60 65 63 61 61 60 65 65 63	3 Nor. 2 C.W. 1 C.W. 2 Nor. her cause 2 Nor. 2 Nor. 1 C.W. 1 C.W. 1 Nor.	Bl. I
IBYield difference	4 4	-1.4 arde 9	Selkirk. Stewart	15.0 12.7 12.8 15.2 15.2 15.2 15.2 16.2	92 101 101 92 ay to August te by floodin 1.  POOL D  JOHNSTO  — — — — to August 3.4  ROOSEN, — — — — ay to August	24 25 26 25 5.11 inche ng, pests, PISTRIC N, BEVEL 	1.0 2.5 2.0 1.0 s. hail, dro	61 60 65 63 61 61 60 65 63	3 Nor. 2 C.W. 1 C.W. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 1 C.W. 1 Nor. 1 Nor. 2 Nor. 2 Nor. 2 Nor.	Bl. I
IBYield difference	4 4 4	-1.44 arde 9 3 signi 4 -2.3	Selkirk. Stewart	15.0 12.7 12.8 15.2 15.2 15.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16	92 101 101 92 ay to August te by floodin i.  POOL D  JOHNSTO  Co August 3.4  ROOSEN,  He had a support to August 3.4	24 25 26 25 5.11 inche ng, pests, ISTRIC N, BEVEL 	1.0 2.5 2.0 1.0 5. hail, dro CT 4 RLEY ————————————————————————————————————	61 60 65 63 61 61 60 65 63	3 Nor. 2 C.W. 1 C.W. 2 Nor. her cause 2 Nor. 1 C.W. 1 C.W. 1 Nor. 2 Nor. 1 Nor. 2 Nor. 1 Nor. 2 Nor.	Bl. I
Tests  IB  Yield difference  IB  Necessary difference	4 4 4	-1.44 arde 9 3 signi 4 -2.3	Selkirk. Stewart. Ramsey. Chinook. 0 bushels. Re d on account Leslie J. Nelsc  W  Thatcher. Selkirk. Stewart. Ramsey. Chinook. Stewart. Ramsey. Chinook. Stewart. Ramsey. Ramsey. Chinook. Stewart. Ramsey. Chinook. Stewart. Ramsey. Chinook. Stewart. Ramsey. Chinook. Stewart. Ramsey. Chinook. Selkirk. Stewart. Ramsey. Chinook. Selkirk. Stewart. Ramsey. Chinook. Selkirk. Stewart. Selkirk. Stewart. Selkirk.	15.0 12.7 12.8 15.2 15.2 15.2 16.2	92 101 101 92 ay to August te by floodin i.  POOL D  JOHNSTO  Co August 3.4  ROOSEN,  He had a support to August 3.4	24 25 26 25 5.11 inche ng, pests, PISTRIC N, BEVEL 	1.0 2.5 2.0 1.0 5. hail, dro CT 4 RLEY ————————————————————————————————————	61 60 65 63 61 61 60 65 65 63 64 63 63	3 Nor. 2 C.W. 1 C.W. 2 Nor. 2 Nor. 2 Nor. 1 C.W. 1 C.W. 1 C.W. 1 Nor.	Bl. I
Tests  IB  Yield difference  IB  Necessary difference	4 4 4	-1.44 arde 9 3 signi 4 -2.3	Selkirk. Stewart	15.0 12.7 12.8 15.2 15.2 15.2 16.2 16.2 16.2 16.2 17.2 17.2 18.2 19.8 21.2 21.8 21.8 21.8 21.8 21.8 21.8 21.8 21.8 21.8 21.9 21.8	POOL D  JOHNSTO  To August 3.4  ROOSEN,  Ty to August 3.5  SORENSI 95 95 95 103	24 25 26 25 5.11 inche ng, pests, ISTRIC N, BEVEL 	1.0 2.5 2.0 1.0 5. hail, dro CT 4 RLEY ————————————————————————————————————	61 60 65 63 64 63 63 63 65	3 Nor. 2 C.W. 1 C.W. 2 Nor. 2 Nor. 2 Nor. 1 C.W. 1 Nor. 1 Nor. 2 Nor. 1 C.W. 1 Nor.	Bl. I
Tests IC	4 4 4 4 4	-1.4 arde 9 3 signi	Selkirk. Stewart. Ramsey. Chinook. 0 bushels. Ra  d on account Leslie J. Nelsc  W  Thatcher. Selkirk. Stewart. Ramsey. Chinook. 8 bushels. Ramsey. Thatcher. Selkirk. Stewart. Ramsey. Chinook. 8 bushels. Ramsey. Chinook. 8 bushels. Ramsey. Chinook. 8 bushels. Ramsey. Chinook.	15.0 12.7 12.8 15.2 15.2 15.2 16.2	POOL D  JOHNSTO  To August 3.4  ROOSEN,  Ty SORENSI  95  95	24 25 26 25 5.11 inche ng, pests, ISTRIC N, BEVEL 	1.0 2.5 2.0 1.0 5. hail, dro CT 4 RLEY ————————————————————————————————————	61 60 65 63 61 61 60 65 65 63 64 63 63	3 Nor. 2 C.W. 1 C.W. 2 Nor. 2 Nor. 2 Nor. 1 C.W. 1 C.W. 1 C.W. 1 Nor.	Bl. I
Tests  IC	4 4 4 4 4	-1.4 arde 9 3 signi	Selkirk. Stewart. Ramsey. Chinook. 0 bushels. Ra  d on account Leslie J. Nelsc  W  Thatcher. Selkirk. Stewart. Ramsey. Chinook. 8 bushels. Ramsey. Thatcher. Selkirk. Stewart. Ramsey. Chinook. 8 bushels. Ramsey. Chinook. 8 bushels. Ramsey. Chinook. 8 bushels. Ramsey. Chinook.	15.0 12.7 12.8 15.2 20.1 20.4 20.4 23.1 21.2 23.1 20.4 23.1 21.2 23.1 21.2 23.1 21.2 23.2 21.8 21.8 24.0 24.7 25.2 27.8	POOL D  JOHNSTO  JOHNSTO  To August 3.4  ROOSEN,  Ty to August  Sorrensi  103  101  101  102  103  103	24 25 26 25 5.11 inche ng, pests,  ISTRIC  N, BEVEL  19 inches.  ANTELO 27 28 34 32 27 2.84 inche EN, CABE	1.0 2.5 2.0 1.0 5. hail, dro CT 4 RLEY ————————————————————————————————————	61 60 65 63 63 63 65 66	3 Nor. 2 C.W. 1 C.W. 2 Nor. 2 Nor. 2 Nor. 1 C.W. 1 C.W. 1 C.W. 1 C.W. 1 Nor. 1 C.W. 1 Nor. 1 Nor. 1 C.W.	Bl. I
Tests  IC	4 4 4 4 s not	-1.4 arde 9 3 signi 4 -2.3	Selkirk. Stewart. Ramsey. Chinook. 0 bushels. Ra  d on account Leslie J. Nelsc  W  Thatcher. Selkirk. Stewart. Ramsey. Chinook. Stewart. Ramsey. Ramsey. Chinook. Stewart. Ramsey. Chinook. Ramsey. Chinook.	15.0 12.7 12.8 15.2 115.2 15.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16	POOL D  JOHNSTO  To August 3.4  ROOSEN,  PS 95  103 103 97  O August 4.0  AHNER, M	24 25 26 27 27 28 29 inches.  ANTELO 27 2.84 inche EN, CABE	1.0 2.5 2.0 1.0 s. hail, dro	61 60 65 63 64 63 64 63 64 65 65 66 65 65	3 Nor. 2 C.W. 1 C.W. 2 Nor. her cause 2 Nor. 2 Nor. 1 C.W. 1 C.W. 1 Nor. 1 Nor. 2 Nor. 1 C.W. 1 Nor. 1 C.W. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 C.W. 1 Nor. 1 Nor. 1 C.W. 1 C.W. 1 Nor. 1 C.W. 1 Nor.	Bl. I
1C	4 4 4 4 4	-1.4 arde 9 3 signi	Selkirk. Stewart	15.0 12.7 12.8 15.2 ainfall—Ma of damag on, Admira  THEAT  TOREY I. 22.3 20.4 23.1 21.2 fall—May 25.2 23.2 19.8 24.0 ainfall—Ma GREG T 14.7 15.1 15.0 15.6 14.2 all—May t 22.4	POOL D  JOHNSTO  JOHNSTO  TO August 3.4  ROOSEN,  The control of t	24 25 26 25 5.11 inche ng, pests,  ISTRIC  N, BEVEL  27 28 34 32 27 2.84 inche EN, CABE  8 inches.	1.0 2.5 2.0 1.0 s. hail, dro 2T 4  RLEY	61 60 65 63 64 63 63 65 65 65 65	3 Nor. 2 C.W. 1 C.W. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 1 C.W. 1 C.W. 1 C.W. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 C.W. 1 Nor. 1 Nor. 1 Nor. 1 C.W. 1 Nor. 1 C.W. 1 Nor. 1 C.W. 1 Nor. 1 C.W. 1 Nor. 1	BI.  BI.  I.  D.
Tests  1C	4 4 4 4 s not	-1.4 arde 9 3 signi 4 -2.3	Selkirk. Stewart. Ramsey. Chinook. O bushels. Ra  d on account Leslie J. Nelsc  W  Thatcher. Selkirk. Stewart. Ramsey. Chinook. Selkirk.	15.0 12.7 12.8 15.2 115.2 15.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 16	POOL D  JOHNSTO  To August 3.4  ROOSEN,  Ty to August 4.0  AHNER, M  95  94	24 25 26 27 27 28 29 inches.  ANTELO 27 284 32 27 2.84 inche EN, CABE 38 inches.	1.0 2.5 2.0 1.0 s. hail, dro CT 4 RLEY	61 62 63 63 63 64 63 64 65 65 66 65 65 66 65	3 Nor. 2 C.W. 1 C.W. 2 Nor. 2 Nor. 2 Nor. 1 C.W. 1 C.W. 1 Nor. 2 Nor. 1 C.W. 1 Nor. 1 C.W. 1 C.W. 1 Nor. 2	Bl. I
Tests  1C	4 4 4 4 s not	-1.4 arde 9 3 signi 4 -2.3	Selkirk. Stewart	15.0 12.7 12.8 15.2 ainfall—Ma of damag on, Admira  THEAT  TOREY I. 22.3 20.4 23.1 21.2 fall—May 25.2 23.2 19.8 24.0 ainfall—Ma GREG T 14.7 15.1 15.0 15.6 14.2 all—May t 22.4	POOL D  JOHNSTO  JOHNSTO  TO August 3.4  ROOSEN,  The control of t	24 25 26 25 5.11 inche ng, pests,  ISTRIC  N, BEVEL  27 28 34 32 27 2.84 inche EN, CABE  8 inches.	1.0 2.5 2.0 1.0 s. hail, dro	61 60 65 63 64 63 63 65 65 65 65	3 Nor. 2 C.W. 1 C.W. 2 Nor. 2 Nor. 2 Nor. 1 C.W. 1 C.W. 1 Nor. 2 Nor. 1 C.W. 1 Nor. 1 C.W. 1 C.W. 1 Nor. 2	BI.  BI.  I.  D.
Tests  IC	4  4  4  4  4  4  4  4  4  4  4	-1.4 arde 9 3 signi 4 -2.3 5 signi 6	Selkirk. Stewart. Ramsey. Chinook.  d on account Leslie J. Nelso  Thatcher. Selkirk. Stewart. Ramsey. Chinook. Chinook.	15.0 12.7 12.8 15.2 11.8 15.2 11.8 10.7 12.8 15.2 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8	pool pool pool pool pool pool pool pool	24 25 26 27 27 28 34 32 27 2.84 inches 8 inches.  MAPLE C: 26 24 31 28 26	1.0 2.5 2.0 1.0 s. hail, dro CT 4 RLEY	61 60 63 63 63 64 65 65 65 66 66	3 Nor. 2 C.W. 1 C.W. 2 Nor. 2 Nor. 2 Nor. 2 Nor. 1 C.W. 1 C.W. 1 C.W. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 Nor. 1 C.W. 1 Nor. 1 Nor. 1 Nor. 1 C.W. 1 Nor. 1 C.W. 1 Nor. 1 C.W. 1 Nor. 1 C.W. 1 Nor. 1	BI.  BI.  I.  D.

#### Wheat Pool District 4-Continued

Cereal	-						tinued			
Variety Zone	Dist.	Sub- Dist		Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw	Lbs. per measured bushel	Com- mercial grades	Gradin
			DOT	VALD TI	CHSCHEF	RER. HOR	SHAM			
1B	4	7	Thatcher	28.2	108	30	1.0	61	2 Nor.	B1.
			Selkirk	29.5	107	32	2.0	59	2 Nor.	-
			Stewart	20.4	108	31	2.0	62	2 C.W.	Bl.
			Ramsey	25.6	108	36	3.0	61	3 C.W.	Bl., D.
Samples incor	nnlete_	_viel	Chinookds not included	26.3	107	33 Rainfall—N	2.0	60 guet 5.88 in	2 Nor.	BI.
samples meon	ipiete	-yici						gust 5.00 III	ciies.	
1D	4	9		19.0	KOEHLE:	R, LEMSI	3.0	62	1 Nor.	
	,		Selkirk	18.2	98	28	3.0	61	2 Nor.	1.
			Stewart	17.4	98	24	2.0	65	1 C.W.	
			Ramsey	15.4	96	26	1.0	66	I C.W.	-
Viald differen		oids.	Chinook	20.0	95	30	1.0	65	1 Nor.	-
	-	12 10	ificant. Rainfa			2 1 1	0.1	3, 7,	V-AVOICE OF	
IB	disca 4	rded	on account on Dewayne W. (	f damage Churchill,	by flooding Piapot.	ıg, pests,	hail, dro	ight or oth	ier causes	•
-			W	HEAT	POOL D	DISTRIC	CT 5			
	,		J	AMES E.	GLASRU	D, MAZE	NOD			
1A	5	1	Thatcher	27.7	100	24	2.0	64	1 Nor.	T.
			Selkirk	29.0 25.9	97 100	22	2.0	63	2 Nor. 1 C.W.	I.
			Stewart Ramsey	27.3	100	26	2.0	65 65	2 C.W.	D.
			Chinook	28.9	98	22	2.3	65	1 Nor.	-
Test damaged	l—yield	ds no	t included in zo						1 1401.	
			SH	ERMAN	LYNGSTA	D. NEID	PATH			
IA	5	4	Thatcher	17.9	90	24	1.0	- 57	3 Nor.	-
			Selkirk	15.9	90	24	1.0	54	4 Sp.	-
			Stewart	11.5	93	35	1.5	61	3 C.W.	1.
			Ramsey	14.3	93	31	1.8	61	3 C.W.	I.
Necessary dif	ference	-1.4	Chinook	17.9 infall—M	91 ay to Augus	26 t 6.35 inch	1.0 es.	61	2 Nor.	Bl.
	-		TER	RY H. S	HILLINGT	ON. GRA	YBURN			
2E	5	7	Thatcher	-	87	28	8.0	63	1 Nor.	-
			Selkirk		87	28	8.0	62	2 Nor.	. I.
			Stewart	_	94	30	7.0	63	3 C.W.	D.
			Ramsey Lake		94 87	30 30	8.0	64 63	3 C.W. 2 Nor.	D. I.
m 1			s—yields not re	liable. R	ainfall—Ma		t 7.30 incl		2 1 1011	
Test damaged	by an	imal		WALKED A A	WILKINSO	N MARC	QUIS			
Test damaged		imal	L							
0.00		imal:	Thatcher	25.1	105	_	_	63	1 Nor.	_
			Thatcher Selkirk	25.1	105 105			62	2 Nor.	ī.
			Thatcher Selkirk Stewart	25.1 24.8 21.8	105 105 110	=	Ξ	62 65	2 Nor.	1.
			Thatcher Selkirk Stewart Ramsey	25.1 24.8 21.8 26.5	105 105 110 112	= -	Ξ	62 65 64	2 Nor. 2 C.W. 2 C.W.	
2B	5	8	ThatcherSelkirkStewartRamseyChinook	25.1 24.8 21.8 26.5 25.0	105 105 110 112 105	= -		62 65	2 Nor.	1.
2B	5	8	ThatcherSelkirkStewartRamseyChinookificant. Rainfa	25.1 24.8 21.8 26.5 25.0 all—May	105 105 110 112 105 to August 4	.59 inches.	ELL	62 65 64	2 Nor. 2 C.W. 2 C.W.	1.
2BYield differen	5	8	Thatcher	25.1 24.8 21.8 26.5 25.0 all—May 21.7	105 105 110 112 105	.59 inches.	ELL	62 65 64 64	2 Nor. 2 C.W. 2 C.W. 1 Nor.	I. I. Bl.
2B	5	8 t sign	Thatcher	25.1 24.8 21.8 26.5 25.0 all—May 21.7 19.6	105 105 110 112 105 to August 4	.59 inches. 7, <b>AQUAD</b> 13	ELL	62 65 64 64 62 60	2 Nor. 2 C.W. 2 C.W. 1 Nor. 2 Nor. 2 Nor.	I. I.
2BYield differen	5	8 t sign	Thatcher Selkirk Stewart Ramsey Chinook ificant. Rainfa G Thatcher Selkirk Stewart	25.1 24.8 21.8 26.5 25.0 all—May 21.7 19.6 21.4	105 105 110 112 105 to August 4	.59 inches. 7, <b>AQUAD</b> 13 14 13	ELL	62 65 64 64 62 60 64	2 Nor. 2 C.W. 2 C.W. 1 Nor. 2 Nor. 2 Nor.	I. I. Bl.
2BYield differen	5	8 t sign	Thatcher Selkirk Stewart Ramsey Chinook ificant. Rainfa Thatcher Selkirk Stewart Ramsey.	25.1 24.8 21.8 26.5 25.0 all—May 21.7 19.6 21.4 23.0	105 105 110 110 112 105 to August 4.	.59 inches. 7, <b>AQUAD</b> 13 14 13 14	ELL	62 65 64 64 62 60 64 65	2 Nor. 2 C.W. 2 C.W. 1 Nor. 2 Nor. 2 Nor. 1 C.W. 1 C.W.	B1.
Yield differen	5	8 t sign	Thatcher Selkirk Stewart Ramsey Chinook ificant. Rainfa  Thatcher Selkirk Stewart Ramsey Chinook	25.1 24.8 21.8 26.5 25.0 all—May 21.7 19.6 21.4 23.0 20.9	105 105 110 112 105 to August 4.	59 inches. 7, <b>AQUAD</b> 13 14 13 14	=	62 65 64 64 62 60 64	2 Nor. 2 C.W. 2 C.W. 1 Nor. 2 Nor. 2 Nor.	I. I. Bl.
Yield differen	5	8 t sign	Thatcher Selkirk Stewart Ramsey Chinook ificant. Rainfa Thatcher Selkirk Stewart Ramsey Chinook 30 bushels. Ra	25.1 24.8 21.8 26.5 25.0 all—May 4ARTH A 21.7 19.6 21.4 23.0 20.9 infall—Ma	105 105 110 112 105 to August 4 POLLEY	.59 inches. 7, AQUAD 13 14 13 14 14 15.96 inch	es.	62 65 64 64 62 60 64 65	2 Nor. 2 C.W. 2 C.W. 1 Nor. 2 Nor. 2 Nor. 1 C.W. 1 C.W.	I. I. Bl. I.
2BYield differen 1A	5	8 t sign	Thatcher. Selkirk. Stewart. Ramsey. Chinook ificant. Rainfa Thatcher. Selkirk. Stewart. Ramsey. Chinook. 0 bushels. Ra Thatcher.	25.1 24.8 21.8 26.5 25.0 all—May 4ARTH A 21.7 19.6 21.4 23.0 20.9 infall—Ma	105 105 110 112 105 to August 4.	.59 inches. 7, AQUAD 13 14 13 14 14 15.96 inche T, ERNFO	es.	62 64 64 64 62 60 64 65 63	2 Nor. 2 C.W. 1 Nor. 2 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor.	B1.
2BYield differen 1A	5	8 t sign 9	Thatcher Selkirk Stewart Ramsey Chinook ificant. Rainfa Thatcher Selkirk Stewart Ramsey Chinook 30 bushels. Rai	25.1 24.8 21.8 26.5 25.0 all—May 4ARTH A 21.7 19.6 21.4 23.0 20.9 infall—Ma	105 105 110 112 105 to August 4 POLLEY	.59 inches. 7, AQUAD 13 14 13 14 15.96 inche T, ERNFO 21 23	es.	62 64 64 64 62 60 64 65 63	2 Nor. 2 C.W. 1 Nor. 2 Nor. 2 Nor. 1 C.W. 2 Nor.	BI. I
2BYield differen	5	8 t sign 9	Thatcher Selkirk Stewart Ramsey Chinook ificant. Rainfa Thatcher Selkirk Stewart Ramsey Chinook 30 bushels. Ra Thatcher Selkirk Stewart Selkirk Stewart	25.1 24.8 21.8 26.5 25.0 all—May 4ARTH A 21.7 19.6 21.4 23.0 20.9 infall—Ma	105 105 110 112 105 to August 4 POLLEY	59 inches. 7, AQUAD 13 14 13 14 15.96 inche 7, ERNF( 21 23 31	es.	62 64 64 64 62 60 64 65 63	2 Nor. 2 C.W. 1 Nor. 2 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor. 2 Nor. 4 Sp. 3 C.W.	BI. I. BI. G., I.
2BYield differen 1A	5	8 t sign 9	Thatcher. Selkirk. Stewart. Ramsey. Chinook. ificant. Rainfa Thatcher. Selkirk. Stewart. Ramsey. Chinook. 0 bushels. Ra Thatcher. Selkirk. Stewart. Ramsey. Selkirk. Ramsey.	25.1 24.8 21.8 26.5 25.0 all—May 4ARTH A 21.7 19.6 21.4 23.0 20.9 infall—Ma	105 105 110 112 105 to August 4 POLLEY	59 inches. 7, AQUAD 13 14 13 14 15.96 inche T, ERNFO 21 23 31 30	es.	62 64 64 64 62 60 64 65 63 59 54 62 64	2 Nor. 2 C.W. 2 C.W. 1 Nor. 2 Nor. 2 Nor. 1 C.W. 2 Nor. 4 Sp. 3 C.W. 2 C.W.	BI. I
Yield differen  1A  Necessary dif	5 5 ference	8 t sign 9	Thatcher Selkirk Stewart Ramsey Chinook ificant. Rainfa Thatcher Selkirk Stewart Ramsey Chinook 30 bushels. Ra Thatcher Selkirk Stewart Ramsey Chinook Chinook Chinook	25.1 24.8 21.8 26.5 25.0 25.0 21.7 19.6 21.4 23.0 20.9 infall—M.	105 105 110 111 112 105 to August 4 POLLEY  ay to Augus SCHMID'	59 inches.  AQUAD  13 14 13 14 t 5.96 inch  F, ERNF( 21 23 31 30 21	es	62 64 64 64 62 60 64 65 63 59 54 62 64 64 61	2 Nor. 2 C.W. 2 C.W. 1 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor. 2 Nor. 4 Sp. 3 C.W.	Bl. 1. Bl. G., I.
Yield differen  1A  Necessary dif	5 5 ference 5	8 t sign 9	Thatcher Selkirk Stewart Ramsey Chinook ificant. Rainfa Thatcher Selkirk Stewart Ramsey Chinook O bushels. Rai Thatcher Selkirk Stewart Ramsey Chinook O bushels. Rainfacher Selkirk Stewart Selkirk Stewart Selkirk Stewart Solkirk Stewart Solkirk Stewart Solkirk Stewart Solkirk Stewart Solkirk Stewart	25.1 24.8 21.8 26.5 25.0 all—May 4ARTH A 21.7 19.6 21.4 23.0 20.9 Mirfall—Mirf	105 105 110 112 105 110 112 105 to August 4  . POLLEY  ay to Augus . SCHMID	.59 inches.  , AQUAD 13 14 13 14 t 5.96 inch  F, ERNFO 21 23 31 30 21 ay to Augu	es	62 64 64 64 66 63 63 59 54 62 64 65 63	2 Nor. 2 C.W. 2 C.W. 1 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor. 4 Sp. 3 C.W. 1 Nor.	I. I
Yield differen  IA  Necessary dif  IA  Unsatisfactor	5 ces not 5 ference 5	8 t sign 9	Thatcher. Selkirk. Stewart. Ramsey. Chinook ificant. Rainfa Thatcher. Selkirk. Stewart. Ramsey. Chinook 80 bushels. Ra Thatcher. Selkirk. Stewart. Ramsey. Chinook on—yields not r	25.1 24.8 21.8 26.5 25.0 25.0 21.7 19.6 21.4 23.0 20.9 infall—Mi	105 105 110 112 105 110 112 105 to August 4  . POLLEY  ay to Augus . SCHMID	.59 inches.  , AQUAD 13 14 13 14 t 5.96 inch  F, ERNFO 21 23 31 30 21 ay to Augu	es	62 64 64 64 66 63 63 59 54 62 64 65 63	2 Nor. 2 C.W. 2 C.W. 1 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor. 4 Sp. 3 C.W. 1 Nor.	I. I
Yield differen  IA  Necessary dif  IA  Unsatisfactor:  Tes	5 ces not 5 ference 5	8  t sign  9  -1.8  10  inatic  2  3	Thatcher Selkirk Stewart Ramsey Chinook ificant. Rainfa Thatcher Selkirk Stewart Ramsey Chinook 80 bushels. Ra Thatcher Selkirk Stewart Ramsey Chinook on yields not red on account Billy Costley, Norman and R	25.1 24.8 21.8 21.8 26.5 25.0 all—May  ARTH A 21.7 19.6 21.4 23.0 9 infall—M.  — eliable.  of dama Bateman. kaymond J	105 105 110 111 112 105 to August 4  . POLLEY  ay to Augus  SCHMID'  Rainfall—M  ge by flood  Finlay, Vang	.59 inches.  , AQUAD 13 14 13 14 t 5.96 inch T, ERNF( 21 23 31 30 21 ay to Auguing, pests.	es	62 64 64 64 66 63 63 59 54 62 64 65 63	2 Nor. 2 C.W. 2 C.W. 1 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor. 4 Sp. 3 C.W. 1 Nor.	I. I
Yield differen  1A  Necessary dif  1A  Unsatisfactor:	5 ces not 5 ference 5	8  t sign  9  —1.8  10  inatic	Thatcher Selkirk Stewart Ramsey Chinook ificant. Rainfa Thatcher Selkirk Stewart Ramsey Chinook Stewart Ramsey Thatcher Selkirk Stewart Ramsey Chinook Stewart Selkirk	25.1 24.8 21.8 21.8 26.5 25.0 all—May  ARTH A 21.7 19.6 21.4 23.0 9 infall—M.  — eliable.  of dama Bateman. kaymond J	105 105 110 111 112 105 to August 4  . POLLEY  ay to Augus  SCHMID'  Rainfall—M  ge by flood  Finlay, Vang	.59 inches.  , AQUAD 13 14 13 14 t 5.96 inch T, ERNF( 21 23 31 30 21 ay to Auguing, pests.	es	62 64 64 64 66 63 63 59 54 62 64 65 63	2 Nor. 2 C.W. 2 C.W. 1 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor. 4 Sp. 3 C.W. 1 Nor.	I. I
Yield differen  IA  Necessary dif  IA  Unsatisfactor:  Tes	5 ces not 5 ference 5	8  t sign  9  -1.8  10  inatic  2  3	Thatcher. Selkirk. Stewart. Ramsey. Chinook. Thatcher. Selkirk. Stewart. Ramsey. Chinook. Stewart. Ramsey. Chinook. Thatcher. Selkirk. Stewart. Ramsey. Chinook. Stewart. Ramsey. Chinook. Stewart. Selkirk. Selkirk. Stewart. Selkirk. Selki	25.1 24.8 26.5 25.0 25.0 21.7 19.6 21.7 21.7 21.7 20.9 infall—M. ELDO M.  eliable.  of dama, Bateman. taymond Jehm, Kels	105 105 110 111 112 105 to August 4  . POLLEY  ay to Augus  SCHMID'  Rainfall—M  ge by flood  Finlay, Vang	.59 inches.  , AQUAD 13 14 13 14 15.96 inche  T, ERNF( 21 23 31 30 21 ay to Augu ing, pests. guard.	es.  DLD  ust 5.41 in , hail, dro	62 64 64 64 66 63 63 59 54 62 64 65 63	2 Nor. 2 C.W. 2 C.W. 1 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor. 4 Sp. 3 C.W. 1 Nor.	I. I
Yield differen  1A  Necessary dif	5 ces not 5 ference 5	8  t sign  9  -1.8  10  inatic  2  3	Thatcher. Selkirk. Stewart. Ramsey. Chinook. Thatcher. Selkirk. Stewart. Ramsey. Chinook. Stewart. Ramsey. Chinook. Thatcher. Selkirk. Stewart. Ramsey. Chinook. Stewart. Ramsey. Chinook. Stewart. Selkirk. Selkirk. Stewart. Selkirk. Selki	25.1 24.8 21.8 26.5 25.0 all—May 21.7 19.6 21.4 23.0 20.9 infall—Mi ELDO M.  eliable.  of dama, Bateman. laymond lehm, Kels	ay to Augus  SCHMID  Rainfall—M  ge by flood  Finlay, Vangern.	59 inches.  7, AQUAD 13 14 13 14 15.96 inch 7, ERNF( 21 23 31 30 21 ay to Augu ing, pests. guard.	oes.  DLD  State of the control of t	62 64 64 64 66 63 63 59 54 62 64 65 63	2 Nor. 2 C.W. 2 C.W. 1 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor. 4 Sp. 3 C.W. 1 Nor.	I. I
Yield differen  1A  Necessary dif  1A  Unsatisfactor  Tes  1A  1A  1A	5  ces not 5	8  t sign  9  -1.8  10  inatic  2  3	Thatcher. Selkirk. Stewart. Ramsey. Chinook. Thatcher. Selkirk. Stewart. Ramsey. Chinook. Stewart. Ramsey. Chinook. Thatcher. Selkirk. Stewart. Ramsey. Chinook. Stewart. Ramsey. Chinook. Stewart. Selkirk. Selkirk. Stewart. Selkirk. Selki	25.1 24.8 26.5 25.0 21.9 25.0 21.7 19.6 21.4 23.0 20.9 dinfall—Minfall	ay to Augus  SCHMID  Rainfall—M  ge by flood  Finlay, Vangtern.	59 inches.  7, AQUAD 13 14 13 14 15.96 inch 7, ERNF( 21 23 31 30 21 ay to Augu ing, pests. guard.	oes.  DLD  State of the control of t	62 64 64 64 65 63 59 54 62 64 61 61 61 63	2 Nor. 2 C.W. 2 C.W. 1 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor. 4 Sp. 3 C.W. 2 C.W. 1 Nor.	Bl. I
Yield differen  1A  Necessary dif  1A  Unsatisfactor  Tes  1A  1A  1A	5  ces not 5	8  t sign  9  -1.8  10  inatic  2  3	Thatcher Selkirk Stewart Ramsey Chinook ificant. Rainfa Thatcher Selkirk Stewart Ramsey Chinook 30 bushels. Ra  Thatcher Selkirk Stewart Ramsey Chinook 10 bushels. Ra  Thatcher Selkirk Stewart Ramsey Chinook Stewart Ramsey Chinook Thatcher Selkirk Stewart Selkirk Stewart Bamsey Chinook Chinook Chinook Dilly Costley, Norman and R. Harold W. Boe	25.1 24.8 21.8 26.5 25.0 all—May 21.7 19.6 21.4 23.0 20.9 infall—Mi ELDO M.  eliable.  of dama, Bateman. laymond lehm, Kels	ay to Augus  SCHMID  Rainfall—M  ge by flood  Finlay, Vangern.	59 inches.  7, AQUAD 13 14 13 14 15.96 inch 7, ERNF( 21 23 31 30 21 ay to Augu ing, pests. guard.	oes.  DLD  State of the control of t	62 64 64 64 62 60 64 65 63 59 54 62 64 61 ches.	2 Nor. 2 C.W. 2 C.W. 1 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor. 4 Sp. 3 C.W. 1 Nor. her cause	Bl. 1 Bl Bl Bl S
Yield differen  1A  Necessary dif  1A  Unsatisfactor  Tes  1A  1A  1A	5  ces not 5	8  t sign  9  -1.8  10  inatic  2  3	Thatcher	25.1 24.8 26.5 21.8 26.5 25.0 21.9 4ARTH A 21.7 19.6 21.4 23.0 20.9 ELDO M.  ELDO M.  eliable.  of dama, Bateman, Laymond lehm, Kels  HEAT  GAYLO 17.3 13.8 17.4	ay to Augus  SCHMID  Rainfall—M  ge by flood  Finlay, Vangern.	59 inches.  7, AQUAD 13 14 13 14 15.96 inch 7, ERNF( 21 23 31 30 21 ay to Augu ing, pests. guard.	oes.  DLD  State of the control of t	62 64 64 64 66 60 64 65 63 59 54 62 64 61 ches.	2 Nor. 2 C.W. 2 C.W. 1 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor. 4 Sp. 3 C.W. 1 Nor. her cause	Bl. 1 Bl Bl Bl S S.
Yield differen  1A  Necessary dif  1A  Unsatisfactor:	5  ces not 5	8  t sign  9  -1.8  10  inatic  2  3	Thatcher	25.1 24.8 26.5 26.5 25.0 all—May 4ARTH A 23.0 20.9 infall—M. ELDO M.  eliable.  of dama, Bateman, Laymond Jehm, Kels  HEAT  GAYLO 17.3 13.8	ay to Augus  SCHMID  Rainfall—M  ge by flood  Finlay, Vangern.	59 inches.  7, AQUAD 13 14 13 14 15.96 inch 7, ERNF( 21 23 31 30 21 ay to Augu ing, pests. guard.	oes.  DLD  State of the control of t	62 64 64 64 62 60 64 65 63 59 54 62 64 61 ches.	2 Nor. 2 C.W. 2 C.W. 1 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor. 4 Sp. 3 C.W. 2 C.W. 1 Nor.	Bl. I

#### Wheat Pool District 6-Continued

		Yield bus. per acre					Com- mercial grades	Grading remarks
	DON	NALEEN	M. MACE	IMER, B.	AYARD			
4			99	28	1.0	61	2 Nor.	I.
	Selkirk	21.3	99	29	1.0	57	3 Nor.	
	Stewart		110				1 C.W.	
	Ramsey	21.6	108				I C.W.	
-1.5	Chinook	nfall—Ma	ay to August			04	I Nor.	
			1 1 1 1 1 1 1 1 1					
5	Thatcher	USS G. I	99	CRESTW	YND	58	2 Nor.	
	Selkirk	-		-			4 Sp.	
	Stewart			-			I C.W.	
				ATT. 81				BI.
ttle-	-yields not relia	ble. Rain	nfall-May t	o August	5.18 inche		2 1401.	Di.
			O'E ALLEGA					
6	Thatcher	27.0	99	36	2.0	62	2 Nor.	I.
	Selkirk	30.4	99	36	2.0	60	2 Nor.	I.
	Stewart	19.1	110				1 C.W.	
		29.5	110				1 C.W.	Ī.
-5.4	3 bushels. Rai	nfall—Ma				01	2 1401.	**
			•	7-1-1-1		Control of	1 2 9	1
8	Thatcher	21.7	124	28	HEAD	60	2 Nor.	BI.
	Selkirk	19.0	123	40	-		2 Nor.	
	Stewart	24.8	127	37	-		3 C.W.	I., BL.
	Ramsey	24.0	127				3 C.W.	I., Bl. Bl.
-2.8	B6 bushels. Rai	nfall—Ma	ay to August		es.	00	2 1401.	Di.
						1-10-77 11	-	09
10			. SIMPSON	26	1.3	60	1 Nor.	
10		19.9	91	25	1.0	56	4 Nor.	
			98	22	2 5	62	1 C.W.	
	Stewart	15.9	98			62		
	Ramsey	18 4	99	30	2.0	63	1 C.W.	smith test
arde	Ramsey	18.4 19.8 infall—Ma	99 91 ay to August ge by floodi	30 27 5.22 inche	2.0 1.5	63 64	1 C.W. 1 Nor.	s.
arde	Ramsey Chinook 77 bushels. Rai	18.4 19.8 Infall—Ma of damag ner, Francarke, Estl	99 91 ay to August ge by floodi cis. in.	30 27 5.22 inche	2.0 1.5	63 64	1 C.W. 1 Nor.	s.
arde	Ramsey	18.4 19.8 nfall—Ma of damag ner, Fran arke, Estl y, Tregary	99 91 ay to August ge by floodi cis. in.	30 27 5.22 inche	2.0 1.5 es. hail, dro	63 64	1 C.W. 1 Nor.	s.
2 3 10	Ramsey	18.4 19.8 nnfall—Ma of damag ner, Fran- arke, Estl y, Tregary	99 91 ay to August ge by floodi cis. in.	30 27 5.22 inche ng, pests,	2.0 1.5 es. hail, dro	63 64 ought or ot	1 C.W. 1 Nor. her cause	Thomas and the second
arde	Ramsey	18.4 19.8 nfall—Ma of damag ner, Fram arke, Estl v, Tregary	99 91 ay to August ge by floodi cis. in. 'a.	30 27 5.22 inche ng, pests,	2.0 1.5 hail, dro	63 64 bught or ot	1 C.W. 1 Nor. her cause	I.
2 3 10	Ramsey. Chinook	18.4 19.8 nfall—Ma of damag ner, Frant arke, Esta v, Tregary HEAT	99 91 ay to August ge by floodi cis. in. a.	30 27 5.22 incheng, pests, DISTRIC	2.0 1.5 es. hail, dro	63 64 bught or ot	1 C.W. 1 Nor. her cause 2 Nor. 2 Nor.	1
2 3 10	Ramsey	18.4 19.8 nfall—Maron damagner, Francarke, Estly, Tregary HEAT	99 91 ay to August ge by floodi cis. in. a.	30 27 5.22 inch ng, pests, pistric R, waw 28 27 39 34	2.0 1.5 es. hail, dro OTA 2.0 1.7 2.0 2.0	63 64 bught or ot 63 62 67 66	1 C.W. 1 Nor. her cause 2 Nor. 2 Nor. 1 C.W. 1 C.W.	ſ. <u>I.</u> <u>—</u>
arde 2 3 10	Ramsey. Chinook. 77 bushels. Rai dd on account Dennis R. Wag Kenneth R. Cl B. Lynn Busby  WI Thatcher. Selkirk. Stewart. Ramsey. Lake	18.4 19.8 nfall—Mai ord damag ner, Fran- arke, Estl y, Tregarv HEAT 7AYNE A 33.9 35.2 36.0 37.9 28.8	99 91 ay to August ge by floodi cis. in. ra.  POOL D  A. BRICKE	30 27 5.22 inche ng, pests, DISTRIC R, WAW( 28 27 39 34 30	2.0 1.5 es. hail, dro OTA 2.0 1.7 2.0 2.0	63 64 bught or ot 63 62 67 66 63	1 C.W. 1 Nor. her cause 2 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor,	ſ.
arde 2 3 10	Ramsey. Chinook	18.4 19.8 nfall—Mai ord damag ner, Fran- arke, Estl y, Tregarv HEAT 7AYNE A 33.9 35.2 36.0 37.9 28.8	99 91 ay to August ge by floodi cis. in. ra.  POOL D  A. BRICKE	30 27 5.22 inche ng, pests, DISTRIC R, WAW( 28 27 39 34 30	2.0 1.5 es. hail, dro OTA 2.0 1.7 2.0 2.0	63 64 bught or ot 63 62 67 66 63	1 C.W. 1 Nor. her cause 2 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor,	ſ. <u>I.</u> <u>—</u>
arde 2 3 10	Ramsey	18.4 19.8 nfall—M: of damag ner, Fran arke, Estl y, Tregary  HEAT  7AYNE A 33.9 35.2 36.0 37.9 28.8 in zone si	99 91 ay to August ge by floodi cis. in. ra.  POOL D  A. BRICKE	30 27 27.5.22 inch ng, pests, DISTRIC R, WAW( 28 27 39 34 30 aainfall—M	2.0 1.5 hail, dro	63 64 bught or ot 63 62 67 66 63 gust 7.52 inc	1 C.W. 1 Nor. her cause 2 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor.	ř. I. —
arde 2 3 10	Ramsey. Chinook	18.4 19.8 nfall—M: of damagner, Frannarke, Estl , Tregarv HEAT 7AYNE 4 33.9 28.6 36.0 37.9 28.8 in zone 8 45.8	99 91 ay to August ge by floodi cis. in. a.  POOL D  A. BRICKE  — — — — — — — — — — — — — — — — — —	30 27 25.22 inch ng, pests, DISTRIC R, WAWC 28 27 39 34 30 ainfall—M	2.0 1.5 hail, dro DTA 2.0 1.7 2.0 1.7 4ay to Au	63 64 ought or ot 63 62 67 66 63 gust 7.52 inc	2 Nor. 2 Nor. 1 C.W. 2 Nor. 1 C.W. 2 Nor. 2 Nor.	[
arde 2 3 10	Ramsey. Chinook. 77 bushels. Rai ed on account Dennis R. Wag Kenneth R. Cl B. Lynn Busby  Wi Thatcher. Selkirk Stewart. Ramsey. Lake. Uds not included  DONAI Thatcher. Selkirk	18.4 19.8 nfall—M: of damag ner, Fran arke, Estl y, Tregar  HEAT  7AYNE # 33.9 35.2 36.0 37.9 28.8 in zone si LD AND 45.8 45.6	99 91 ay to August ge by floodi cis. in. ra.  POOL D  A. BRICKE	30 27 25.22 inchenng, pests, p	2.0 1.5 hail, dro DTA 2.0 1.7 2.0 2.0 1.7 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	63 64 bught or ot 63 62 67 66 63 gust 7.52 inc	2 Nor. 2 Nor. 1 C.W. 1 C.W. 1 C.W. 2 Nor. 2 Nor. 2 Nor. 3 Nor.	I. I. I. G., I.
arde 2 3 10	Ramsey. Chinook. Thinook. Thin	18.4 19.8 nfall—M: of damagner, Fran- ner, Fran- ner, Fran- rake, Estly, Tregary HEAT  7AYNE # 33.9 35.2 36.0 37.9 28.8 in zone si	99 91 ay to August ge by floodi cis. in. ra.  POOL D  A. BRICKE  — — — — — — — — — — — — — — — — — —	30 27 25.22 inch ng, pests, DISTRIC R, WAWC 28 27 39 30 ainfall—N ARK, INC 36 34 43 41	2.0 1.5 hail, dro DTA 2.0 1.7 2.0 1.7 4ay to Au 9:HKEITH 3.0 4.8 4.3	63 64 bught or ot 63 62 67 66 63 gust 7.52 inc	2 Nor. 2 Nor. 2 Nor. 1 C.W. 2 Nor. 1 C.W. 2 Nor. thes.	I. I. — I. G., I. G., I.
arde 2 3 10	Ramsey. Chinook. Thinook. Thin	18.4 19.8 nfall—M: of damagner, Francarke, Estly, Tregary HEAT  7AYNE # 33.9 35.2 36.0 37.9 28.8 in zone st	99 91 91 ay to August te by floodi cis. in. ra.  POOL D  A. BRICKE  ———————————————————————————————————	30 27 27.5.22 inch ng, pests, pistric R, WAW 28 27 39 34 40 30 ainfall—N	2.0 1.5 hail, dro CT 7 OTA 2.0 1.7 2.0 2.0 1.7 day to Au PHKEITH 3.0 4.8 4.3 2.3	63 64 bught or ot 63 62 67 66 63 gust 7.52 inc	2 Nor. 2 Nor. 1 C.W. 2 Nor. 1 C.W. 2 Nor. 2 Nor.	I. I. I. G., I.
arde 2 3 10	Ramsey. Chinook	18.4 19.8 nfall—M: of damagner, Francarke, Estly, Tregary HEAT  7AYNE # 33.9 35.2 36.0 37.9 28.8 in zone st	99 91 91 ay to August te by floodi cis. in. ra.  POOL D  A. BRICKE  ———————————————————————————————————	30 27 27.5.22 inch ng, pests, pistric R, WAW 28 27 39 34 40 30 ainfall—N	2.0 1.5 hail, dro CT 7 OTA 2.0 1.7 2.0 2.0 1.7 day to Au PHKEITH 3.0 4.8 4.3 2.3	63 64 bught or ot 63 62 67 66 63 gust 7.52 inc	2 Nor. 2 Nor. 2 Nor. 1 C.W. 2 Nor. 1 C.W. 2 Nor. thes.	I. I. — I. G., I. G., I.
arde 2 3 10	Ramsey. Chinook	18.4 19.8 nfall—M: of damagner, Francarke, Estl v, Tregarv  HEAT  7AYNE # 33.9 35.2 36.0 37.9 28.8 in zone si LD AND 45.8 33.7 38.6 40.0 infall—M:	99 91 91 ay to August te by floodi cis. in. ra.  POOL D  A. BRICKE  ———————————————————————————————————	20 27 27. 5.22 incherning, pests, ng, pests, ng, pests, 28 27 39 34 30 ainfall—M ARK, INC 36 34 43 43 43 43 43 44 43 43 44 43 44 45 468 incherning	2.0 1.5 hail, dro CT 7 OTA 2.0 1.7 2.0 2.0 1.7 fay to Au CHKEITH 3.0 4.8 4.3 2.3 2.3 2.3	63 64 63 62 67 66 63 gust 7.52 inc	1 C.W. 1 Nor. her cause 2 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor. ches. 2 Nor. 3 C.W. 3 C.W. 3 Nor.	I. I
arde 2 3 10	Ramsey. Chinook. To bushels. Rai  d on account Dennis R. Wag Kenneth R. Cl B. Lynn Busby  Wi  Thatcher Selkirk Stewart. Ramsey. Lake Ids not included  DONA Thatcher Selkirk Stewart. Ramsey. Lake Jake Jake Jake Jake Jake Jake Jake J	18.4 19.8 nfall—M: of damagner, Francarke, Estl , Tregarv  HEAT  7AYNE 4 33.9 35.2 36.0 37.9 28.8 in zone si LD AND 45.8 40.0 infall—M: DONALL 42.2	99 91 ay to August ge by floodi cis. in. a.  POOL D  A. BRICKE  ———————————————————————————————————	30 27 27.5.22 incheng, pests,	2.0 1.5 hail, dro DTA 2.0 1.7 2.0 1.7 day to Au 9.0 1.7 4.8 4.3 2.3 ess.	63 64 bught or ot 63 62 67 66 63 gust 7.52 inc 64 62 64 65 62	2 Nor. 2 Nor. 2 Nor. 1 C.W. 2 Nor. 1 C.W. 2 Nor. 3 C.W. 3 C.W. 3 Nor.	I. I. — I. G., I. I.
arde 2 3 10	Ramsey. Chinook. 77 bushels. Rai d on account Dennis R. Wag Kenneth R. Cl B. Lynn Busby  WI  Thatcher. Selkirk. Stewart. Ramsey. Lake. Ushelm Stewart. Ramsey. Lake. Stewart. Ramsey. Lake. Stewart. Ramsey. Lake. W. Thatcher. Selkirk. Stewart. Ramsey. Lake. Ramsey. Lake. Stewart. Ramsey. Lake. Ramsey. Lake. Ramsey. Lake.	18.4 19.8 nfall—M: of damag ner, Fran arke, Estl y, Tregarv  HEAT  7AYNE # 33.9 35.2 36.0 37.9 28.8 in zone si in zone si 45.8 45.6 33.7 38.6 40.0 infall—M: DONALI 42.2 33.4	99 91 ay to August ge by floodi cis. in. ra.  POOL D  A. BRICKE	30 27 27.5.22 incherning, pests, pest	2.0 1.5 hail, dro CT 7 OTA 2.0 1.7 2.0 2.0 1.7 4.8 4.8 4.8 4.3 2.3 2.3 2.8 EHILL 1.8 1.0	63 64 bught or ot 63 62 67 66 63 gust 7.52 inc 1 64 62 64 65 62	1 C.W. 1 Nor. 2 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor. 3 Nor. 3 C.W. 3 Nor. 2 Nor. 3 Nor.	I. I
arde 2 3 10	Ramsey. Chinook. To bushels. Rai  d on account Dennis R. Wag Kenneth R. Cl B. Lynn Busby  Wi  Thatcher Selkirk Stewart. Ramsey. Lake ds not included  Thatcher Selkirk Stewart. Ramsey. Lake W. Thatcher Selkirk Stewart. Ramsey. Lake Stewart. Ramsey. Lake Stewart. Ramsey. Lake Stewart. Selkirk Stewart. Stewart. Stewart. Stewart. Selkirk Stewart.	18.4 19.8 nfall—M: of damagner, Frannarke, Estl r, Tregarv  HEAT  7AYNE 4 33.9 28.8 in zone si LD AND 45.8 45.6 33.7 38.6 40.0 40.0 DONALI 42.2 33.4 33.8	POOL D  A. BRICKE  Lummary. R  ROSS CLA 97 97 97 97 97 97 97 97 97 97 99 99 103	30 27 25.22 inch ng, pests, DISTRIC R, WAWC 28 27 39 34 30 ainfall—N CRK, INC 36 34 43 41 39 4.68 inch CCH, SPY 37 47 43	2.0 1.5 hail, dro DTA 2.0 1.7 2.0 1.7 day to Au 2.0 1.7 4.8 4.3 2.3 ess. HILL 1.8 1.8 1.0 2.8	63 64 ought or ot  63 62 67 66 63 gust 7.52 inc  [ 64 62 64 65 62 64 65 62 67 68	1 C.W. 1 Nor. 2 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor. 2 Nor. 3 C.W. 3 C.W. 3 Nor. 2 Nor.	I. I. G., I.
3 3	Ramsey. Chinook	18.4 19.8 nfall—M: of damag ner, Fran arrke, Estl , Tregarv  HEAT  7AYNE 4 33.9 28.8 in zone 8 in zone 8 45.6 33.7 38.6 40.0 infall—M:  DONALI 42.2 33.4 33.8 32.4 33.6 33.6	POOL D  A. BRICKE  Lummary. R  ROSS CLA 97 97 97 99 99 99 103 102 102	20 27 27. 5.22 incherning, pests, ng, pests, ng, pests, ng, pests, 28 27 39 34 30 ainfall—M 43 43 43 43 40 40 40 40 40 40 40 40 40 40 40 40 40	2.0 1.5 hail, dro CT 7 OTA 2.0 1.7 2.0 2.0 1.7 4.8 4.8 4.8 4.3 2.3 2.3 2.8 EHILL 1.8 1.0	63 64 bught or ot 63 62 67 66 63 gust 7.52 inc 1 64 62 64 65 62	2 Nor. 2 Nor. 2 Nor. 1 C.W. 2 Nor. 1 C.W. 2 Nor. 3 C.W. 3 C.W. 3 Nor.	I. I
3 3	Ramsey. Chinook. To bushels. Rai  d on account Dennis R. Wag Kenneth R. Cl B. Lynn Busby  Wi  Thatcher Selkirk Stewart. Ramsey. Lake ds not included  Thatcher Selkirk Stewart. Ramsey. Lake W. Thatcher Selkirk Stewart. Ramsey. Lake Stewart. Ramsey. Lake Stewart. Ramsey. Lake Stewart. Selkirk Stewart. Stewart. Stewart. Stewart. Selkirk Stewart.	18.4 19.8 nfall—M: of damag ner, Fran arrke, Estl , Tregarv  HEAT  7AYNE 4 33.9 28.8 in zone 8 in zone 8 45.6 33.7 38.6 40.0 infall—M:  DONALI 42.2 33.4 33.8 32.4 33.6 33.6	POOL D  A. BRICKE  Lummary. R  ROSS CLA 97 97 97 99 99 99 103 102 102	20 27 27. 5.22 incherning, pests, ng, pests, ng, pests, ng, pests, 28 27 39 34 30 ainfall—M 43 43 43 43 40 40 40 40 40 40 40 40 40 40 40 40 40	2.0 1.5 hail, dro DTA 2.0 1.7 2.0 2.0 1.7 2.0 4.8 2.3 ess. HILL 1.8 1.0 2.8	63 64 bught or ot 63 62 67 66 63 gust 7.52 inc 64 62 64 65 62 65 62	2 Nor. 2 Nor. 2 Nor. 1 C.W. 2 Nor. 1 C.W. 2 Nor. 3 C.W. 3 Nor. 3 C.W. 3 Nor. 3 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W.	I. I
3 3 3 yiel 4 7.3 9	Ramsey. Chinook. Thinook. Thin	18.4 19.8 nfall—M: of dama; ner, Fran arke, Estl y, Tregarv  HEAT  7AYNE # 33.9 35.2 36.0 37.9 28.8 in zone si in zone si LD AND 45.8 45.6 40.0 infall—M: 0DONALI 42.2 33.4 33.8 32.4 39.6 ill—May	99 91 ay to August ge by floodi cis. in. ra.  POOL D  A. BRICKE  ———————————————————————————————————	30 27 27.5.22 incherning, pests, pest	2.0 1.5 hail, dro DTA 2.0 1.7 2.0 2.0 1.7 2.0 4.8 2.3 2.3 2.3 2.3 2.3 2.3	63 64 bught or ot 63 62 67 66 63 gust 7.52 inc 64 62 64 65 62 67 68 63 61	2 Nor. 2 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor. 1 C.W. 3 Nor. 3 C.W. 3 Nor. 2 Nor. 3 C.W. 3 Nor. 3 C.W. 3 Nor. 3 C.W. 3 Nor. 3 C.W. 3 Nor. 3 Nor.	I. I
arde 2 3 10 3 3 -yiel 4 -7.3 9 9 sign	Ramsey. Chinook. 77 bushels. Rai don account Dennis R. Wag Kenneth R. Cl B. Lynn Busby  Wi  Thatcher. Selkirk. Stewart. Ramsey. Lake. John Chinologia Stewart. Ramsey. Lake. Thatcher. Selkirk. Stewart. Ramsey. Lake. Jake. J	18.4 19.8 nfall—M: of damag ner, Fran arke, Estl , Tregarv  HEAT  /AYNE 4 33.9 35.2 36.0 37.9 28.8 in zone si LD AND 45.8 45.6 40.0 infall—M: DONALL 42.2 33.4 33.4 33.4 33.4 33.4 33.4 33.4	99 91 ay to August ge by floodi cis. in. ra.  POOL D  A. BRICKE  ———————————————————————————————————	30 27 27.5.22 incherning, pests, pest	2.0 1.5 hail, dro DTA 2.0 1.7 2.0 2.0 1.7 2.0 4.8 2.3 2.3 2.3 2.3 2.3 2.3	63 64 bught or ot 63 62 67 66 63 gust 7.52 inc 64 62 64 65 62 67 68 63 61	2 Nor. 2 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor. 1 C.W. 3 Nor. 3 C.W. 3 Nor. 2 Nor. 3 C.W. 3 Nor. 3 C.W. 3 Nor. 3 C.W. 3 Nor. 3 C.W. 3 Nor. 3 Nor.	I. I
arde 2 3 10 3 4 4 7.33 9 sign	Ramsey. Chinook. To bushels. Rai  do on account Dennis R. Wag Kenneth R. Cl B. Lynn Busby  Wi  Thatcher Selkirk Stewart. Ramsey. Lake Joonal Thatcher Selkirk Stewart. Ramsey. Ramsey. Lake W. Thatcher Selkirk Stewart. Ramsey. Lake Joonal Thatcher Selkirk Stewart. Ramsey. Lake Jake Jake Joonal Thatcher Selkirk Stewart. Ramsey. Lake Jake Jake Jake Jake Jake Jake Jake J	18.4 19.8 nfall—M: of damagner, Frannarke, Estl 7, Tregarv  HEAT  7AYNE 4 33.9 28.8 in zone 3 37.9 28.8 in zone 3 45.6 33.7 38.6 40.0 nfall—M: DONALI 42.2 33.4 33.8 32.4 33.8 32.4 33.9 of damagald, Moorics, Handels, Han	POOL D  BRICKE  BRICKE  BROSS CLA  97  96  97  97  97  99  99  102  102  102  104  105  105  105  105  105  105  105	30 27 27.5.22 incherning, pests, pest	2.0 1.5 hail, dro DTA 2.0 1.7 2.0 2.0 1.7 2.0 4.8 2.3 2.3 2.3 2.3 2.3 2.3	63 64 bught or ot 63 62 67 66 63 gust 7.52 inc 64 62 64 65 62 67 68 63 61	2 Nor. 2 Nor. 2 Nor. 1 C.W. 1 C.W. 2 Nor. 1 C.W. 3 Nor. 3 C.W. 3 Nor. 2 Nor. 3 C.W. 3 Nor. 3 C.W. 3 Nor. 3 C.W. 3 Nor. 3 C.W. 3 Nor. 3 Nor.	I. I
t	4 —1.5 5 ttle—6	4 Thatcher. Selkirk. Stewart. Ramsey. Chinook. —1.54 bushels. Rai  5 Thatcher. Selkirk. Stewart. Ramsey. Chinook. tle—yields not relia  6 Thatcher. Selkirk. Stewart. Ramsey. Lake. —5.43 bushels. Rai  8 Thatcher. Selkirk. Stewart. Ramsey. Lake. —2.86 bushels. Rai	Dist.   Dus.   Dus.   Per acre	Dist.   Dist.   Dus.   Seeding to	Dist.   Dist.   Dus.   Seeding to   height   h	Dist.   Dus.   Seeding to   height   Straw   per acre   ripening   in inches   Straw   height   hei	Dist.   Varieties   Dougle   Dist.   Varieties   Der acre   ripening   In inches   Straw   measured	Dist.   Dist.   Dust.   Seeding to   height   Straw   measured   mercial   grades

Cereal Variety Zone	Dist.	Sub- Dist	. Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw	Lbs. per measured bushel	Com- mercial grades	Grading remarks
			ER		DERWOR	IZ, WRO	XTON			
3B	8	1	Thatcher	30.7	103	32 32	2.0 2.0 3.0	63	1 Nor.	-
			Stewart	26.2	103 117	37	3.0	62	2 Nor.	I.
			Ramsey	25.1	115	36	2.0	63	2 C.W. 2 C.W.	I.
Yield difference	s not	sign	Lakeificant. Rainfa	29.9 all—May	104 to August 8.	34 52 inches.	2.5	61	2 Nor.	I.
an.	_		-	JAMES J	. KELLY,		ATS			
3B	8	2	Thatcher	17.6 19.5	99	31 34	-	55 52	4 Sp.	-
			Stewart		99	35		62	3 C.W.	G., I.
			Ramsey	16.1	98	33	-	62	5 Sp. 3 C.W. 3 C.W.	G., I.
Yield difference	es not	sign	Lakeificant. Rainf	18.1 all—May	98 to August 5	.07 inches.	_	54	4 Sp.	
				WAYN	E KNOLL,		N			
3C	8	4	Thatcher	14.7	92	22	2.8 2.3 2.5	59	3 Nor.	I.
			Selkirk Stewart	16.1	91 97	23 25	2.5	55 62	4 Sp.	G., I., E
			Ramsev	14.0	98	2.7	2.8	62	4 Sp. 3 C.W. 3 C.W.	I., D., E
Necessary diffe	rence	-2.8	Lake 30 bushels. Ra	13.2 infall—M	94 av to Augus	22 t 5.82 inch	3.0 es.	55	4 Sp.	_
				-	ST SYCH,					· · · · · · · · · · · · · · · · · · ·
4A	8	10		18.6	110	38	4.0	63	2 Nor.	BI.
			Selkirk Stewart		111	38 38	4.0	62	3 Nor.	I., St. I., St.
			Ramsey	24.5	109	40	4.0	66	4 C.W. 4 C.W.	I., St.
Necessary diffe	rence	-3.4	Lake 2 bushels. Ra	17.4 infall—M	109	38 t 6.13 inch	4 0	62	3 Nor.	I., St.
					W. RURA					0 x 402 00 00 00 0
252	8	11	Thatcher	-	122	36	9.0	62	3 Nor.	I.
3F	O				122	36	9.0	60	3 Nor.	I.
3F	0		Selkirk				0.0		20111	
3F	Ü		Stewart	-	122	48	9.0	65	3 C.W.	I., St.
		imal	Stewart Ramsey Lake s—yields not re	liable. R	122 123 122 tainfall—Ma	48 48 36 y to Augus	9.0 9.0 9.0 9.0 st 7.06 incl	65 64 61	3 C.W. 3 C.W. 3 Nor.	I., St. G., I. I.
Test damaged	by an		Stewart	liable. R	122 123 122 Lainfall—Ma	48 48 36 y to Augus DISTRIC	9.0 9.0 9.0 st 7.06 incl	65 64 61 hes.	3 Nor.	G., 1.
Test damaged	by an	imals	Stewart	HEAT RONAI	122 123 122 Lainfall—Ma	48 48 36 y to Augus DISTRIC H, JASMI	9.0 9.0 9.0 et 7.06 incl	65 64 61 hes.	3 Nor.	G., I.
Test damaged	by an		StewartRamseyLakes—yields not re	HEAT RONAI 17.8 16.7	122 123 122 Lainfall—Ma POOL I D TKATC 102 103	48 48 36 y to Augus DISTRIC H, JASMI 31 25	9.0 9.0 9.0 et 7.06 incl	65 64 61 hes.	1 Nor. 2 Nor.	G., I. I.
Test damaged	by an	1	Stewart. Ramsey Lake Seyields not re  W  Thatcher Selkirk Stewart. Ramsey.	HEAT  RONAI 17.8 16.7 10.4 7.9	122 123 122 Lainfall—Ma  POOL I  D TKATC: 102 103 107 105	48 48 36 y to Augus DISTRIC H, JASMI 31 25 33 30	9.0 9.0 9.0 st 7.06 incl	65 64 61 hes.	1 Nor. 2 Nor. 3 C.W. 4 C.W.	I. G., I. D.
Test damaged	by an	1	Stewart. Ramsey Lake Seyields not re  W  Thatcher Selkirk Stewart. Ramsey.	HEAT  RONAI 17.8 16.7 10.4 7.9	122 123 122 Lainfall—Ma  POOL I  D TKATC: 102 103 107 105	48 48 36 y to Augus DISTRIC H, JASMI 31 25 33 30	9.0 9.0 9.0 st 7.06 incl	65 64 61 63	1 Nor. 2 Nor.	
	by an	1	Stewart. Ramsey Lake Seyields not re  W  Thatcher Selkirk Stewart. Ramsey.	HEAT  RONAI 17.8 16.7 10.4 7.9 17.1 infall—M	122 123 122 Aainfall—Ma POOL I D TKATO 102 103 107 105 105 105 ay to Augus	48 36 y to Augus DISTRIC H, JASMI 31 25 33 30 30 t 4.68 inch	9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 1.0 1.0 1.0 3.0 2.5 1.0 es.	65 64 61 hes.	1 Nor. 2 Nor. 3 C.W. 4 C.W.	I. G., I. D.
Test damaged  3C	9 erence	1	Stewart. Ramsey. Lake	HEAT  RONAI 17.8 16.7 10.4 7.9 17.1 infall—M  DOUGL 38.2	122 123 122 122 122 122 123 124 125 103 107 105 105 105 105 105 105 105 105 105 105	48 48 36 y to Augus DISTRIC H, JASMI 31 25 30 30 4.68 inch OD, CUP.	9.0 9.0 9.0 9.0 1.0 1.0 1.0 2.5 1.0 es.	65 64 61 hes.	1 Nor. 2 Nor. 3 C.W. 4 C.W. 2 Nor.	
Test damaged	9 erence	1 -3.4	Stewart. Ramsey	HEAT  RONAI 17.8 16.7 10.4 7.9 17.1 infall—M  DOUGL 38.2 35.2	122 123 122 Lainfall—Ma POOL I D TKATO 102 103 107 105 105 ay to Augus AS W. WO 102 102	48 48 36 y to Augus DISTRIC H, JASMI 25 33 30 30 4.68 inch	9.0 9.0 9.0 9.0 10.0 1.0 3.0 2.5 1.0 es.	65 64 61 hes.	1 Nor. 2 Nor. 3 C.W. 4 C.W. 2 Nor.	G., I. G., I. I.
Test damaged  3C  Necessary diffe	9 erence	1 -3.4	Stewart. Ramsey	HEAT  RONAI 17.8 16.7 10.4 7.9 17.1 infall—M  DOUGL 38.2 35.2 34.3 40.6	122 123 122 122 121 122 123 124 102 103 107 105 105 105 105 105 105 102 102 102 102 106 106	48 48 36 y to Augus DISTRIC H, JASMI 25 33 30 30 t 4.68 inch OD, CUP. 25 28 30 30	9.0 9.0 9.0 9.0 9.0 1.0 1.0 3.0 2.5 1.0 2.5 1.0 2.5 4.5	65 64 61 hes.	1 Nor. 2 Nor. 3 C.W. 4 C.W. 2 Nor. 2 Nor. 2 C.W. 2 C.W.	G., I.  G., I.  I.
Test damaged  3C  Necessary diffe	9 erence	1 -3.4	Stewart. Ramsey	HEAT  RONAI 17.8 16.7 10.4 7.9 17.1 infall—M  DOUGL 38.2 35.2 34.3 40.6	122 123 122 122 121 122 123 124 102 103 107 105 105 105 105 105 105 102 102 102 102 106 106	48 48 36 y to Augus DISTRIC H, JASMI 25 33 30 30 t 4.68 inch OD, CUP. 25 28 30 30	9.0 9.0 9.0 9.0 9.0 1.0 1.0 1.0 2.5 1.0 es.	65 64 61 hes.	1 Nor. 2 Nor. 3 C.W. 4 C.W. 2 Nor.	G., I. G., I. L. G., I.
Test damaged  3C  Necessary diffe	9 erence	1 -3.4	Stewart. Ramsey. Lake. s—yields not re  W  Thatcher. Selkirk. Stewart. Ramsey. Lake. Stewart. Ramsey. Lake. Stewart. Ramsey. Lake. Lake. Amsey. Lake. Ramsey. Lake. Ramsey. Lake. Ramsey. Lake. Ramsey. Lake. Ramsey. Ramsey. Lake. Ramsey. Ra	HEAT  RONAI 17.8 16.7 10.4 7.9 17.1 infall—M  DOUGL 38.2 35.2 34.3 40.6 37.2 infall recoinfall reco	122 123 122 122 Lainfall—Ma POOL I D TKATO 102 103 107 105 ay to Augus AS W. WO 102 106 106 106 103 ord incomple	48 48 48 36 48 48 48 48 48 48 48 48 48 48 48 48 48	9.0 9.0 9.0 9.0 9.0 1.0 1.0 3.0 2.5 1.0 es.	65 64 61 61 63 61 61 63 61 61	1 Nor. 2 Nor. 3 C.W. 4 C.W. 2 Nor. 2 Nor. 2 C.W. 2 C.W.	G., I.  G., I.  I.
Test damaged  3C  Necessary diffe	9 9 errence	1 -3.4	Stewart. Ramsey. Lake. s—yields not re  W  Thatcher. Selkirk. Stewart. Ramsey. Lake. Stewart. Ramsey. Ramsey. Lake. Stewart. Ramsey. Ramsey. Lake. Ramsey. Rams	HEAT  RONAI 17.8 16.7 10.4 7.9 17.1 infall—M  DOUGL 38.2 35.2 34.3 40.6 37.2 infall reco	122 123 122 123 124 126 127 128 129 129 120 120 120 120 120 120 120 120 120 120	48 48 48 30 48 48 48 48 48 48 48 48 48 48 48 48 48	9.0 9.0 9.0 9.0 9.0 9.0 1.0 1.0 3.0 2.5 1.0 2.5 1.0 2.5 2.0 2.0 2.0 2.0 2.0 2.0 2.0	65 64 61 61 63 61 61 63 63 61 63 65 66 63	1 Nor. 2 Nor. 3 C.W. 4 C.W. 2 Nor. 2 Nor. 2 C.W. 3 Nor. 2 C.W. 2 Nor.	G., I. G., I. I. G., I. BI.
Test damaged  3C  Necessary diffe	9 9 errence	1 3.4 2 2.3	Stewart. Ramsey. Lake. s—yields not re  W  Thatcher. Selkirk. Stewart. Ramsey. Lake. 8 bushels. Ra  Thatcher. Selkirk. Stewart. Ramsey. Lake. 34 bushels. Ra  M  Thatcher. Selkirk.	HEAT  RONAI 17.8 16.7 10.4 7.9 17.1 infall—M  DOUGL 38.2 35.2 34.3 40.6 37.2 infall reco	122 123 122 121 122 123 124 125 126 127 127 127 127 127 127 127 127 127 127	48 48 36 y to Augus DISTRIC H, JASMI 31 25 33 30 t 4.68 inch OD, CUP. 25 28 30 30 30 25 27 26	9.0 9.0 9.0 9.0 1.0 1.0 1.0 2.5 1.0 2.5 2.0 2.3 4.5 2.0	65 64 61 61 63 61 61 63 65 66 63 65 66 63	1 Nor. 2 Nor. 3 C.W. 4 C.W. 2 Nor. 2 Nor. 2 C.W. 2 C.W. 2 C.W. 2 C.W. 2 C.W.	I. G., I. D. I. I. G., I.
Test damaged  3C  Necessary diffe  3C  Necessary diffe	9 9 reference	1 2 2 3	Stewart. Ramsey. Lake. Selkirk. Stewart. Ramsey. Lake. Stewart. Ramsey. Lake. Stewart. Ramsey. Lake. Stewart. Ramsey.	HEAT  RONAI 17.8 16.7 10.4 7.9 17.1 infall—M  DOUGL 38.2 35.2 34.0 37.2 infall reco AYNARI 21.2 24.4 18.8	122 123 122 121 122 123 124 125 126 127 127 127 127 127 127 127 127 127 127	48 48 36 y to Augus DISTRIC H, JASMI 31 25 33 30 t 4.68 inch OD, CUP. 25 28 30 30 30 t 4.68 jnch CUP. 25 28 30 30 25 26 26 26	9.0 9.0 9.0 9.0 1.0 1.0 3.0 2.5 1.0 2.5 2.0 2.3 4.5 2.0 4.5 2.0 4.0	65 64 61 61 63 61 61 63 65 66 63	1 Nor. 2 Nor. 3 C.W. 4 C.W. 2 Nor. 2 Nor. 2 C.W. 2 C.W. 2 C.W. 2 C.W. 2 C.W.	G., I. G., I. I. G., I. BI.
Test damaged  3C  Necessary diffe  3C  Necessary diffe	9 9 reference	1 2 2 3	Stewart. Ramsey. Lake. Selkirk. Stewart. Ramsey. Lake. Stewart. Ramsey. Lake. Stewart. Ramsey. Lake. Stewart. Ramsey.	HEAT  RONAI 17.8 16.7 10.4 7.9 17.1 infall—M  DOUGL 38.2 35.2 34.0 37.2 infall reco AYNARI 21.2 24.4 18.8	122 123 122 121 122 123 124 125 126 127 127 127 127 127 127 127 127 127 127	48 48 36 y to Augus DISTRIC H, JASMI 31 25 33 30 t 4.68 inch OD, CUP. 25 28 30 30 30 t 4.68 jnch CUP. 25 28 30 30 25 26 26 26	9.0 9.0 9.0 9.0 1.0 1.0 3.0 2.5 1.0 2.5 2.0 2.3 4.5 2.0 4.5 2.0 4.0	65 64 61 61 63 61 61 63 65 66 63 65 66 63	1 Nor. 2 Nor. 3 C.W. 4 C.W. 2 Nor. 2 Nor. 2 C.W. 3 Nor. 2 C.W. 2 Nor.	G., I. G., I. I. G., I. I. BI. I. BI.
Test damaged  3C  Necessary diffe  3C  Necessary diffe	9 9 reference	1 2 2 3	Stewart. Ramsey. Lake. s—yields not re  W  Thatcher. Selkirk. Stewart. Ramsey. Lake. 8 bushels. Ra  Thatcher. Selkirk. Stewart. Ramsey. Lake. 34 bushels. Ra  M  Thatcher. Selkirk. Stewart. Ramsey. Lake. Stewart. Ramsey. Lake. Ramsey. Lake. Ramsey. Ramsey	HEAT  RONAI 17.8 16.7 10.4 7.9 17.1 infall—M  DOUGL 38.2 35.2 34.3 40.6 37.2 2infall reco 21.2 24.4 18.8 19.2 20.1 infall—M	122 123 122 121 122 123 124 125 126 127 127 127 127 127 127 127 127 127 127	48 48 36 y to Augus DISTRIC H, JASMI 31 25 33 30 30 t 4.68 inch CUP. 28 30 30 30 25 28 30 30 30 25 28 30 30 30 4.68 inch CUP. 27 26 26 26 27 26 27 26 27 26 27 27 26 27 27 26 27 27 27 26 27 27 27 27 27 26 27 27 27 27 27 27 27 27 27 27	9.0 9.0 9.0 9.0 9.0 1.0 1.0 1.0 2.5 1.0 2.5 2.0 2.0 2.3 4.5 2.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4	65 64 61 61 61 63 61 61 63 65 66 63 65 66 63	1 Nor. 2 Nor. 3 C.W. 4 C.W. 2 Nor. 2 Nor. 2 C.W. 2 C.W. 2 C.W. 2 Nor. 2 C.W. 2 C.W. 3 Nor. 2 C.W. 3 Nor.	G., I. G., I. I. G., I. I. BI. I. BI.
Test damaged  3C  Necessary diffe  3C  Necessary diffe	9 9 reference	1 2 2.3 3 3 — 2.6	Stewart. Ramsey. Lake. Seyields not re  W  Thatcher. Selkirk. Stewart. Ramsey. Lake. Be bushels. Ramsey. Lake. Abushels. Ramsey. Ramsey. Lake. Abushels. Ramsey. Ramse	HEAT  RONAI 17.8 16.7 10.4 17.9 17.1 17.8 16.7 19.4 19.4 19.4 19.8 235.2 35.2 34.3 40.6 37.2 235.2 24.4 18.8 19.2 20.1 iinfall—M  GORDON 27.4	122 123 122 123 122 124 125 126 127 127 127 127 127 127 127 127 127 127	48 48 36 y to Augus DISTRIC H, JASMI 31 25 33 30 t 4.68 inch OD, CUP. 28 30 30 30 25 28 30 30 25 28 30 30 25 28 30 30 25 28 30 30 25 26 26 26 26 27 26 26 27 26 26 27 26 27 26 27 26 27 26 27 27 26 27 26 27 27 27 27 28 28 27 27 27 27 27 27 27 27 27 27	9.0 9.0 9.0 9.0 9.0 1.0 1.0 1.0 2.5 1.0 2.5 2.0 2.3 4.5 2.0 4.0 4.0 4.0 2.0 ess.	65 64 61 61 61 63 61 61 64 63 65 66 63 63 65 66 63 65 66 63 63 65 66 63 65 66 63 66 66 66 66 66 66 66 66 66 66 66	1 Nor. 2 Nor. 3 C.W. 4 C.W. 2 Nor. 3 Nor. 2 C.W. 2 C.W. 3 Nor. 2 C.W. 2 C.W. 3 Nor. 2 Nor. 2 Nor.	I. G., I. L. G., I. I. Bl. I. Bl. D.
Test damaged  3C  Necessary diffe  3C  Necessary diffe	9 grence 9	1 2 2.3 3 3 — 2.6	Stewart. Ramsey. Lake. s—yields not re  W  Thatcher. Selkirk. Stewart. Ramsey. Lake. 18 bushels. Ra  Thatcher. Selkirk. Stewart. Ramsey. Lake. 44 bushels. Ra  M Thatcher. Selkirk. Stewart. Ramsey. Lake. A bushels. Ra  Thatcher. Selkirk. Stewart. Ramsey.	HEAT  RONAI 17.8 16.7 10.4 7.9 17.1 infall—M  DOUGL 38.2 35.2 34.3 40.6 37.2 cinfall rec 21.2 24.4 18.8 19.2 20.1 infall—M  GORDON 27.4 24.4	122 123 122 122 123 124 125 126 126 127 127 127 127 127 127 127 127 127 127	48 48 48 36 48 48 48 48 48 48 48 48 48 48	9.0 9.0 9.0 9.0 9.0 9.0 1.0 1.0 2.5 1.0 2.5 1.0 2.5 2.0 2.0 2.3 4.5 2.0 2.0 2.3 4.5 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	65 64 61 61 63 61 61 61 63 65 66 63 65 66 63 59	1 Nor. 2 Nor. 3 C.W. 4 C.W. 2 Nor. 3 Nor. 2 C.W. 2 C.W. 3 Nor. 2 C.W. 2 C.W. 3 Nor. 2 Nor. 2 Nor.	I. G., I. I. G., I. I. Bl. I. Bl. D. —
Test damaged  3C  Necessary diffe  3C  Necessary diffe	9 grence 9	1 2 2.3 3 3 — 2.6	Stewart. Ramsey. Lake. s—yields not re  W  Thatcher. Selkirk. Stewart. Ramsey. Lake. 8 bushels. Ra  Thatcher. Selkirk. Stewart. Ramsey. Lake. 4 bushels. Ra  M Thatcher. Selkirk. Stewart. Ramsey. Lake. Abushels. Ra  Thatcher. Selkirk. Stewart. Ramsey. Lake. Abushels. Ra  Thatcher. Selkirk. Stewart. Ramsey. Lake. Selkirk. Stewart. Ramsey. Lake. Stewart. Ramsey. Selkirk. Stewart. Ramsey. Selkirk. Stewart. Ramsey. Selkirk. Stewart. Ramsey. Ramsey.	HEAT  RONAI 17.8 16.7 10.4 7.9 17.1 infall—M  DOUGL 38.2 35.2 34.3 40.6 37.2 2infall record 21.2 24.4 18.8 19.2 20.1 infall—M  GORDON 27.4 24.4 20.7 21.1	122 123 122 122 123 122 124 125 126 127 127 128 127 128 129 129 120 120 120 120 120 120 120 120 120 120	48 48 36 y to Augus DISTRIC H, JASMI 31 25 33 30 30 t 4.68 inch OD, CUP. 28 30 30 30 25 28 30 30 30 4.68 inch LIM, DU 24 27 28 28 27 26 26 27 27 28 28 27 28 28 28 28 28 28 28 28 28 28	9.0 9.0 9.0 9.0 9.0 9.0 1.0 1.0 2.5 1.0 2.5 1.0 2.5 2.0 2.3 4.5 2.0 2.0 2.3 4.5 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	65 64 61 61 63 61 61 61 63 65 66 63 65 66 63 65 66 63 65 66 63 65 66 63 65 66 65 66 65 65 66 65 65 65 65 65 65	1 Nor. 2 Nor. 3 C.W. 4 C.W. 2 Nor. 2 Nor. 2 C.W. 3 Nor. 2 C.W. 3 Nor. 2 C.W. 3 C.W. 2 Nor. 2 Nor. 2 C.W. 3 C.W. 2 Nor. 2 C.W. 2 Nor.	I. G., I. J. G., J. G
Test damaged  3C  Necessary diffe  3C  Necessary diffe	9  errence 9	1 2 2.33 32.66 5	Stewart. Ramsey. Lake. s—yields not re  W  Thatcher. Selkirk. Stewart. Ramsey. Lake. 8 bushels. Ra  Thatcher. Selkirk. Stewart. Ramsey. Lake. 4 bushels. Ra  M  Thatcher. Selkirk. Stewart. Ramsey. Lake. 6 bushels. Ra  Thatcher. Selkirk. Stewart. Ramsey. Lake. 6 bushels. Ra  Thatcher. Selkirk. Stewart. Ramsey. Lake. 6 bushels. Ra  Thatcher. Selkirk. Stewart. Ramsey. Lake. Chinook.	HEAT  RONAI 17.8 16.7 10.4 7.9 17.1 17.1 17.1 17.1 17.1 17.1 17.1	122 123 122 121 122 123 122 124 125 126 127 127 127 127 127 127 127 127 127 127	48 48 36 y to Augus DISTRIC H, JASMI 31 25 30 t 4.68 inch OD, CUP. 25 28 30 30 30 t 4.68 inch CUP. 25 26 26 26 27 t 4.01 inch LIM, DUV 24 23 27 28 25 28	9.0 9.0 9.0 9.0 9.0 1.0 1.0 1.0 2.5 1.0 2.0 2.3 4.5 2.0 2.3 4.0 2.0 2.0 4.0 2.0 2.0 2.0 4.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2	65 64 61 61 61 63 61 61 63 65 66 63 65 66 63 65 66 63 65 66 63 65 66 63 65 66 66 67 67 67 67 67 67 67 67 67 67 67	1 Nor. 2 Nor. 3 C.W. 4 C.W. 2 Nor. 3 Nor. 2 C.W. 2 C.W. 3 Nor. 2 C.W. 2 C.W. 3 Nor. 2 Nor. 2 Nor.	G., I. I. G., I. I. G., I. I. BI. I. BI. I. I. I. I.
Test damaged  3C  Necessary diffe  3C  Necessary diffe  2B  Necessary diffe	9  gerrence 9	1 -3.4 2 -2.3 32.6 5 53.8	Stewart. Ramsey. Lake. Seyields not re  W  Thatcher. Selkirk. Stewart. Ramsey. Lake. Selkirk. Stewart. Ramsey. Lake. Abushels. Ramsey. Ramsey. Lake. Abushels. Ramsey.	HEAT  RONAI 17.8 16.7 10.4 17.9 17.1 17.8 16.7 10.4 10.9 17.1 10.9 17.9 17.9 17.9 17.9 17.9 17.9 17.9 17	122 123 122 123 122 124 125 126 127 127 127 127 127 127 127 127 127 127	48 48 36 y to Augus DISTRIC H, JASMI 31 25 30 30 t 4.68 inch OD, CUP. 25 28 30 30 30 t 4.68 inch CE, KELLI 27 26 26 26 27 t 4.01 inch LIM, DUV 23 27 28 28 27 28 29 20 21 21 22 26 27 26 27 26 27 27 28 29 20 21 21 22 23 24 25 26 27 27 28 28 29 20 21 21 22 26 27 27 28 28 27 28 28 27 28 28 27 28 28 27 28 28 28 27 28 28 28 28 27 28 28 28 28 28 28 28 28 28 28	9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	65 64 61 61 61 63 61 61 63 65 66 63 63 65 66 63 65 66 63 65 66 63 65 65 65 65 65 65 65 65 65 65 65 65 65	1 Nor. 2 Nor. 3 C.W. 4 C.W. 2 Nor. 2 Nor. 2 C.W. 2 C.W. 2 Nor. 2 C.W. 2 Nor. 2 C.W. 2 Nor. 2 C.W. 2 Nor. 2 C.W. 2 Nor.	G., I. I. G., I. I. G., I. I. BI. I. BI. I. BI. I. B.P.
Test damaged  3C  Necessary diffe  3C  Necessary diffe  2B  Necessary diffe	9  errence 9	1 2 2.33 32.66 5	Stewart. Ramsey. Lake. Selkirk. Stewart. Ramsey. Lake. Selkirk. Stewart. Ramsey. Lake. Selkirk. Stewart. Ramsey. Lake. Stewart. Ramsey. Lake. Stewart. Ramsey. Lake. Stewart. Ramsey.	HEAT  RONAI 17.8 16.7 10.4 7.9 17.1 infall—M  DOUGL 38.2 35.2 34.3 40.6 37.2 2.infall reco AYNARI 21.2 24.4 18.8 19.2 20.1 infall—M  GORDON 27.4 24.4 20.7 21.4 infall—M  KARYEX 4ARVEY 25.3	122 123 122 122 123 122 124 125 126 127 128 129 129 120 120 120 120 120 120 120 120 120 120	48 48 48 48 48 48 48 48 48 48	9.0 9.0 9.0 9.0 9.0 1.0 1.0 1.0 2.5 1.0 2.5 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2	65 64 61 61 63 61 61 61 63 65 66 63 65 66 63 65 66 63 65 65 65 65 65 65 65 65 65 65 65 65 65	1 Nor. 2 Nor. 3 C.W. 4 C.W. 2 Nor. 2 Nor. 2 C.W. 2 C.W. 3 Nor. 2 C.W. 3 C.W. 2 Nor. 2 Nor. 2 C.W. 3 C.W. 2 Nor. 2 C.W. 3 C.W. 2 Nor.	G., I.  I.  G., I.  I.  G., I.  I.  BI.  I.  I.  BI.  I.  I.  B.P.  G. I.
Test damaged  3C  Necessary diffe  3C  Necessary diffe  3C	9  gerrence 9	1 -3.4 2 -2.3 32.6 5 53.8	Stewart. Ramsey. Lake. s—yields not re  W  Thatcher. Selkirk. Stewart. Ramsey. Lake. 8 bushels. Ra  Thatcher. Selkirk. Stewart. Ramsey. Lake. 4 bushels. Ra  M  Thatcher. Selkirk. Stewart. Ramsey. Lake. 6 bushels. Ra  Thatcher. Selkirk. Stewart. Ramsey. Chinook. 84 bushels. Ra	HEAT  RONAI  17.8 16.7 10.4 7.9 117.1 117.	122 123 122 123 122 124 125 126 127 127 127 127 127 127 127 127 127 127	48 48 36 y to Augus  DISTRIC  H, JASMI 31 25 30 30 t 4.68 inch  OD, CUP. 25 28 30 30 32 te.  EE, KELLI 26 26 26 27 t 4.01 inch  LIM, DUV 24 23 27 28 25 t 5.02 inch  EL, LANIC 32 32	9.0 9.0 9.0 9.0 9.0 9.0 9.0 1.0 1.0 1.0 1.0 2.5 1.0 2.0 2.3 4.5 2.0 2.3 4.0 2.0 2.0 4.0 2.0 2.0 2.0 8.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9	65 64 61 61 61 63 61 61 63 65 66 63 65 66 63 65 66 63 65 65 65 65 65 65 65 65 65 65 65 65 65	1 Nor. 2 Nor. 3 C.W. 4 C.W. 2 Nor. 2 Nor. 2 C.W. 2 Nor. 2 C.W. 2 Nor. 2 C.W. 2 Nor. 2 C.W. 2 Nor. 2 C.W. 2 Nor. 2 C.W. 2 Nor.	G., I.  I.  G., I.  I.  BI.  I.  BI.  I.  BI.  I.  C., I.  I.  G., I.
Test damaged  3C  Necessary diffe  3C  Necessary diffe  2B  Necessary diffe	9  gerrence 9	1 -3.4 2 -2.3 32.6 5 53.8	Stewart. Ramsey. Lake. Selkirk. Stewart. Ramsey. Lake. Selkirk. Stewart. Ramsey. Lake. Selkirk. Stewart. Ramsey. Lake. Stewart. Ramsey. Lake. Stewart. Ramsey. Lake. Stewart. Ramsey.	HEAT  RONAI 17.8 16.7 10.4 7.9 17.1 infall—M  DOUGL 38.2 35.2 34.3 40.6 37.2 2.infall reco AYNARI 21.2 24.4 18.8 19.2 20.1 infall—M  GORDON 27.4 24.4 20.7 21.4 infall—M  KARYEX 4ARVEY 25.3	122 123 122 122 123 122 124 125 126 127 128 129 129 120 120 120 120 120 120 120 120 120 120	48 48 48 48 48 48 48 48 48 48	9.0 9.0 9.0 9.0 9.0 1.0 1.0 1.0 2.5 1.0 2.5 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2	65 64 61 61 63 61 61 61 63 65 66 63 65 66 63 65 66 63 65 65 65 65 65 65 65 65 65 65 65 65 65	1 Nor. 2 Nor. 3 C.W. 4 C.W. 2 Nor. 2 Nor. 2 C.W. 2 C.W. 3 Nor. 2 C.W. 3 C.W. 2 Nor. 2 Nor. 2 C.W. 3 C.W. 2 Nor. 2 C.W. 3 C.W. 2 Nor.	G., I. I. G., I. I. G., I. I. BI. I. BI. I. B.P.

#### Wheat Pool District 9-Continued

3C	9	7			Tipeling	in inches	strength	bushel	grades	remarks
- Trecessary differe	nce		Thatcher Selkirk Stewart Ramsey Lake	40.6 37.4 29.8 33.7 37.3	DE YONG 107 107 112 112 107 av to Augus	28 28 34 36 30	2.0 2.0 5.0 3.0 2.0	63 61 63 65 61	2 Nor. 2 Nor. 2 C.W. 2 C.W. 2 Nor.	I. I. I. I.
	lice	4.5			TALL BUILD	A MI DAIN	Alexander.	ومثلاث مستو	2.3.0.000	
2B	nce-		Thatcher Selkirk Stewart Ramsey Chinook	27.1 22.7 26.8 31.5 24.6	90 90 97 95 90 ay to Augus	25 25 37 36 25	2.8 3.3 2.5 2.0 3.0	63 61 66 65 65	1 Nor. 2 Nor. 1 C.W. 2 C.W. 1 Nor.	<u>I.</u> <u>I.</u>
W. 10	9:		WI	HEAT	POOL D	ISTRIC	T 10	derall e	1 Kan	
W			10 . 5	J. ERNE	ST SPENCI	ER. CRAI	ĸ	The side	3 E.W.	-
2B 1			Thatcher Selkirk Stewart Ramsey Chinook			18 17 25 21	2.0 2.8 2.8 2.3 2.0	63 61 62 62 64	2 Nor. 3 Nor. 2 C.W. 2 C.W. 1 Nor.	I. G., I. I. L., E.
7 cot damaged by	-		7	-	5 11		7	Share Bills		
1A1  Yield differences			Thatcher Selkirk Stewart Ramsey Chinook ficant. Rainf	13.3 10.9 12.6 12.4 12.3	D. PATON	E.E.	=======================================	58 56 62 61 60	2 Nor. 4 Nor. 3 C.W. 2 C.W. 2 Nor.	G. D. Bl.
4	91		BR	UCE W.	RUSNELL,	LUCKY	LAKE	Francis 2		
Necessary differe			Thatcher Selkirk Stewart Ramsey Chinook 4 bushels. Ra	3.3 2.6 4.1 4.9	103 104 103 101 103 ord incomple	16 15 17 20 18		52 51 60 60 59	5 Sp. 5 Sp. 3 C.W. 3 C.W. 2 Nor.	BI. BI.
- 14 - 14 - 14 - 14 - 14 - 14 - 14 - 14					A. BENSO		OOK	Jun Wally	16.0	
2D 1			Thatcher Selkirk Stewart Ramsey Chinook	22.0 22.3 15.8 27.2 24.8	1 × ∑ 110	31 33 39 37 33	2.5 2.8 2.5 2.3 2.8	62 60 66 65 64	1 Nor. 2 Nor. 1 C.W. 1 C.W. 1 Nor.	<u><u>.</u> <u>.</u> .</u>
Necessary differe	nce	-0.9				10 1		Julius		
2D1 Necessary differe			Thatcher Selkirk Stewart Ramsey Chinook	31.4 31.9 36.7 36.8 28.4	114 114 105	31 27 40 36 28	1.5 1.0 3.0 2.0 3.3	62 64 67 67 66	2 Nor. 2 Nor. 3 C.W. 3 C.W. 1 Nor.	I. I. St. St., D.
9 18	31		1A 1 F	LLOYD	G. NELSO	N, SIMPS	ON	Previous:		
2D 1 Yield differences			Thatcher Selkirk Stewart Ramsey Chinook	19.7 19.1 21.6		36 34 35 36 36	8.3 8.3 7.8 7.5 8.3	63 62 65 65 63	1 Nor. 2 Nor. 1 C.W. 2 C.W. 1 Nor.	<u>I.</u> <u>B.</u> P.
Yield differences	not	signi	ficant. Rainf	fall—May	to August 2	.60 inches.		7-0014 3		
2D 1 Necessary differe		9	Thatcher Selkirk Stewart Ramsey Chinook	35.6 30.1 30.3 35.5 27.9	I J. HAIGE	27 24 31 29 28	1.0 1.0 2.0 1.8 1.0	64 62 65 66 65	3 Nor. 3 Nor. 2 C.W. 2 C.W. 2 Nor.	G. G. I. B.P. G.

Cereal Variety Zone	Dist.	Sub Dist		Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading
-			. I	UDREY	H. WALLA	CE, TY	VER			
1D	11	1	Thatcher	4.1	_	-	-	63	1 Nor.	-
			Selkirk	4.3	-	-	-	59	3 Nor.	Į.
			Stewart Ramsey	4.0 3.7				63 64	3 C.W. 3 C.W.	I.
			Chinook	4.4		_		64	1 Nor.	I.
Yield differen	ces not	t sign	ificant. Rainfa		to August 3.	47 inches.		04	1 1401.	
			DU	NE R. I	MARTINSO	N. BICK	LEIGH		3	
1D	11	2	Thatcher	25.3	91	25	3.0	62	1 Nor.	
			Selkirk	24.9	91	25	3.0	59	2 Nor.	_
			Stewart	31.4	101	30	6.0	64	1 C.W. 1 C.W.	2.4
			Ramsey Chinook	38.0 30.9	101 91	30 27	6.0 3.3	65	1 Nor.	-
Necessary dif	ference	-7.2	20 bushels. Ra					03	I INOI.	1
			F	EINHAR	DT A SET	B GLIDI	DEN			
1D	11	3	Thatcher	9.9	RDT A. SEI	14	1.5	62	2 Nor.	BI.
			Selkirk	10.6	94	15	1.8	58	2 Nor.	
			Stewart	5.6	94	15	1.8	61	3 C.W. 3 C.W.	I.
			Ramsey	2.8	97	16	1.5	60	3 C.W.	I.
Necessary dis	ference	_20	Chinook 2 bushels. Ra	11.7	96	14 4 22 inch	1.8	64	1 Nor.	-
ivecessary dif	rerence	-2.0	busileis. Ra	man—IVI	ay to August	4.22 mch				
10	14	,	Thatak G	ORDON	D. SPECHT		RTE	- 61	1 37	
1D	11	4	Thatcher Selkirk	28.3	97 95	SAIR SI		64	1 Nor. 2 Nor.	7
			Stewart	25.2	93			63	3 C W	I. G., I.
			Ramsey	30.0	94	100	_	64	3 C.W. 4 C.W.	D. 1.
			Chinook	27.0	95	-	_	65	l Nor.	
Samples bulk	ed—yie	elds n	ot included in 2	one sumn	nary. Rainf	all—May	to August	2.93 inches		
8101	No.		RO	NALD J	. SMITH,	KINDERI	SEY			
1D	11	6	Thatcher	19.8	-	-	-	64	1 Nor.	-
			Selkirk	21.0	-			63	2 Nor.	I.
			Stewart	22.2	-	-	-	65	1 C.W.	-
			Stewart Ramsey	22.2 23.6				65	1 C.W. 1 C.W.	_
Necessary diff	ference	-2.0	Stewart	22.2 23.6 19.4	ay to August	4.36 inche	es.	65	1 C.W.	Ξ
Necessary diff	ference	-2.0	Ramsey Chinook 2 bushels. Rai	22.2 23.6 19.4 Infall—Ma				65 66 64	1 C.W. 1 C.W.	=
			Ramsey	22.2 23.6 19.4 Infall—Ma	ay to August			65 66 64 HEL	1 C.W. 1 C.W. 1 Nor.	 
		2.0 8	Stewart	22.2 23.6 19.4 Infall—Ma				65 66 64 HEL 60	1 C.W. 1 C.W. 1 Nor.	B1.
Necessary diff			Stewart	22.2 23.6 19.4 nfall—Ma <b>AND</b> BA 14.5 14.4				65 66 64 <b>HEL</b> 60 57	1 C.W. 1 C.W. 1 Nor.	_
			Stewart	22.2 23.6 19.4 nfall—Ma <b>AND</b> BA 14.5 14.4 15.0				65 66 64 <b>HEL</b> 60 57 65	1 C.W. 1 C.W. 1 Nor.	Bl., St.
			Stewart	22.2 23.6 19.4 nfall—Ma <b>AND</b> BA 14.5 14.4				65 66 64 <b>HEL</b> 60 57	1 C.W. 1 C.W. 1 Nor.	Bl., St.
1D	11	8	Stewart	22 . 2 23 . 6 19 . 4 Infall—Ma AND BA 14 . 5 14 . 4 15 . 0 15 . 8 15 . 9	ARRY MeA	MMOND,		65 66 64 <b>HEL</b> 60 57 65 65	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 Nor. 3 C.W. 3 C.W.	Bl. Bl., St. Bl., St.
1D	11	8	Stewart. Ramsey Chinook 2 bushels. Rai  BERNARD Thatcher Selkirk Stewart. Ramsey. Chinook ificant. Rainfa	22 . 2 23 . 6 19 . 4 nfall—Ma AND BA 14 . 5 14 . 4 15 . 0 15 . 8 15 . 9 all—May	ARRY McA	MMOND,	HERSC	65 66 64 <b>HEL</b> 60 57 65 65	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 Nor. 3 C.W. 3 C.W.	Bl., St.
1D	11	8	Stewart. Ramsey. Chinook. 2 bushels. Rai  BERNARD Thatcher. Selkirk. Stewart. Ramsey. Chinook ificant. Rainfa	22 . 2 23 . 6 19 . 4 Infall—Ma AND BA 14 . 5 14 . 4 15 . 0 15 . 8 15 . 9 Ill—May	ARRY MeA	MMOND,	HERSC	65 66 64 HEL 60 57 65 65 62	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 Nor. 3 C.W. 1 Nor.	Bl., St. Bl., St.
1DYield differen	11	8 sign	Stewart. Ramsey. Chinook. 2 bushels. Rai  BERNARD Thatcher. Selkirk. Stewart. Ramsey. Chinook. Ificant. Rainfa	22 . 2 23 . 6 19 . 4 Infall—Ma AND BA 14 . 5 14 . 4 15 . 0 15 . 8 15 . 9 III—May VANCE : 20 . 6 21 . 3	ARRY McA	MMOND,  16 inches.  1, PLENT 26 25	HERSC	65 66 64 HEL 60 57 65 65 62	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 Nor. 3 C.W. 1 Nor.	Bl., St.
1DYield differen	11	8 sign	Stewart. Ramsey. Chinook. Stewart. Selkirk. Stewart. Ramsey. Chinook ificant. Rainfa	22.2 23.6 19.4 nfall—Ma AND BA 14.5 14.4 15.0 15.8 15.9 ill—May VANCE: 20.6 21.3 18.8	ARRY McA  — — to August 4.1	MMOND,	HERSC	65 66 64 HEL 60 57 65 65 62	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 Nor. 3 C.W. 1 Nor. 1 Nor. 2 Nor.	Bl., St. Bl., St.
1DYield differen	11	8 sign	Stewart. Ramsey Chinook 2 bushels. Rai  BERNARD Thatcher Selkirk Stewart. Ramsey. Chinook Thatcher Selkirk Stewart. Rainfa	22. 2 23. 6 19. 4 nfall—Ma AND BA 14. 5 15. 0 15. 8 15. 9 III—May VANCE: 20. 6 21. 3 18. 8 22. 7	ARRY McA  — — to August 4.1	MMOND,	HERSC	65 66 64 HEL 60 57 65 65 62 63 61 65 66	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 Nor. 3 C.W. 1 Nor. 1 Nor. 1 C.W. 1 C.W.	Bl., St. Bl., St.
1DYield differen	11 ces not	8 sign	Stewart. Ramsey. Chinook. Stewart. Selkirk. Stewart. Ramsey. Chinook ificant. Rainfa	22.2 23.6 19.4 nfall—Ma AND BA 14.5 15.0 15.8 15.9 VANCE: 20.6 21.3 18.8 22.7 20.5	to August 4.1	MMOND,	HERSC	65 66 64 HEL 60 57 65 65 62	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 Nor. 3 C.W. 1 Nor. 1 Nor. 2 Nor.	Bl., St. Bl., St.
1DYield differen	11 ces not	8 sign	Stewart. Ramsey. Chinook. 2 bushels. Rai  BERNARD Thatcher. Selkirk. Stewart. Ramsey. Chinook. Ificant. Rainfa  Thatcher. Selkirk. Stewart. Ramsey. Chinook. Chinook. Chinook.	22. 2 23. 6 19. 4 nfall—Ma 14. 5 14. 4 15. 0 15. 8 15. 9 vlll—May vlll—May 20. 6 21. 3 18. 8 22. 7 20. 5 nfall—Ma	to August 4.1  MATHISON  — — — — — — — — — — — — — — — — — —	MMOND,	HERSC	65 66 64 HEL 60 57 65 65 62 63 61 65 66	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 Nor. 3 C.W. 1 Nor. 1 Nor. 1 C.W. 1 C.W.	Bl., St. Bl., St.
Yield differential	11	8 sign	Stewart. Ramsey. Chinook. 2 bushels. Rai  BERNARD Thatcher. Selkirk. Stewart. Ramsey. Chinook. Thatcher. Selkirk. Selkirk. Stewart. Ramsey. Chinook. 5 bushels. Rai	22. 2 23. 6 19. 4 nfall—Ma AND BA 14. 5 14. 4 15. 0 15. 8 15. 9 11—May VANCE: 20. 6 21. 3 18. 8 22. 7 20. 5 nfall—Ma	to August 4.1  MATHISON  ay to August  R. BENOIT	MMOND,	HERSC	65 66 64 HEL 60 57 65 65 62 63 61 65 66 66	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 Nor. 3 C.W. 1 Nor. 1 Nor. 2 Nor. 1 C.W. 1 C.W.	BI., St. BI., St.
Yield differential	11	8 sign	Stewart. Ramsey. Chinook. 2 bushels. Rai  BERNARD Thatcher. Selkirk. Stewart. Ramsey. Chinook. ificant. Rainfa  Thatcher. Selkirk. Stewart. Ramsey. Chinook. 5 bushels. Rai  Thatcher.	22. 2 23. 6 19. 4 nfall—Ma 19. 4 14. 5 15. 8 15. 9 11—May 12. 6 20. 6 21. 3 18. 8 22. 7 20. 5 nfall—Ma	to August 4.1  MATHISON  — — — — — — — — — — — — — — — — — —	MMOND,	#ERSC	65 66 64 HEL 60 57 65 65 62 63 61 65 66 66	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 Nor. 3 C.W. 1 Nor. 1 Nor. 1 C.W. 1 Nor. 1 Nor. 2 Nor. 3 Nor. 3 Nor.	Bl., St. Bl., St.
Yield differential	11	8 sign	Stewart. Ramsey. Chinook. 2 bushels. Rai  BERNARD Thatcher. Selkirk. Stewart. Ramsey. Chinook. ificant. Rainfa  Thatcher. Selkirk Stewart. Ramsey. Chinook. Thatcher. Selkirk Stewart. Ramsey. Chinook. Thatcher. Selkirk Stewart. Ramsey. Chinook. Stewart. Ramsey. Chinook. Stewart. Ramsey. Stewart. Stewart. Stewart. Stewart. Stewart. Selkirk Stewart.	22. 2 23. 6 19. 4 nfall—Ma AND B4 14. 5 15. 8 15. 9 11—May 12 VANCE: 20. 6 21. 3 18. 8 22. 7 20. 5 17 anfall—Ma	ARRY MeA  to August 4.1  MATHISON  ay to August  R. BENOIT  108  108  114	MMOND, 16 inches.  7, PLENT 26 25 27 23 3.23 inche 7, COUR? 25 25 45	HERSO:	65 66 64 HEL 60 57 65 65 62 63 61 65 66 66	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 Nor. 3 C.W. 1 Nor. 1 Nor. 1 C.W. 1 Nor. 1 Nor. 2 Nor. 3 Nor. 3 Nor.	Bl., St. Bl., St.
1DYield differen	11	8 sign	Stewart. Ramsey. Chinook. 2 bushels. Rai  BERNARD Thatcher. Selkirk. Ramsey. Chinook. Ificant. Rainfa  Thatcher. Selkirk. Stewart. Ramsey. Chinook. 5 bushels. Rai  Thatcher. Selkirk. Stewart. Ramsey. Chinook. 5 bushels. Rai	22. 2 23. 6 19. 4 nfall—Ma 14. 5 14. 4 15. 0 15. 8 15. 9 vlll—May vance: 20. 6 21. 3 18. 8 22. 7 20. 5 nfall—Ma	to August 4.1  MATHISON  August 4.1  MATHISON  BENOIT	MMOND, ————————————————————————————————————	HERSC.	65 66 64 HEL 60 57 65 65 62 63 61 66 66 66 66	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 Nor. 3 C.W. 1 Nor. 1 Nor. 2 Nor. 1 C.W. 1 Nor. 3 Nor. 3 Nor. 3 C.W. 4 C.W.	Bl., St. Bl., St.
Yield differential D	11 11 11 11	8 sign 9 —1.3	Stewart. Ramsey. Chinook. 2 bushels. Rai  BERNARD Thatcher. Selkirk. Stewart. Ramsey. Chinook. Thatcher. Selkirks Stewart. Ramsey. Chinook. Thatcher. Selkirks Stewart. Ramsey. Chinook. Stewart. Ramsey. Chinook. Thatcher. Selkirks Stewart. Ramsey. Chinook. Chinook.	22. 2 23. 6 19. 4 nfall—Ma AND B4 14.5 15. 8 15. 8 15. 8 15. 8 12. 7 20. 6 21. 3 18. 8 22. 7 20. 5 nfall—May	to August 4.1  MATHISON  ay to August  R. BENOIT  108  108  114  110  108	MMOND, ————————————————————————————————————	HERSO:	65 66 64 HEL 60 57 65 65 62 63 61 65 66 66 66	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 Nor. 3 C.W. 1 Nor. 1 Nor. 1 C.W. 1 Nor. 1 Nor. 2 Nor. 3 Nor. 3 Nor.	Bl., St. Bl., St.
Yield differential D	11 11 11 11	8 sign 9 —1.3	Stewart. Ramsey. Chinook. 2 bushels. Rai  BERNARD Thatcher. Selkirk. Ramsey. Chinook. Ificant. Rainfa  Thatcher. Selkirk. Stewart. Ramsey. Chinook. 5 bushels. Rai  Thatcher. Selkirk. Stewart. Ramsey. Chinook. 5 bushels. Rai	22. 2 23. 6 19. 4 nfall—Ma AND B4 14.5 15. 8 15. 8 15. 8 15. 8 12. 7 20. 6 21. 3 18. 8 22. 7 20. 5 nfall—May	to August 4.1  MATHISON  ay to August  R. BENOIT  108  108  114  110  108	MMOND, ————————————————————————————————————	HERSC.	65 66 64 HEL 60 57 65 65 62 63 61 66 66 66 66	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 Nor. 3 C.W. 1 Nor. 1 Nor. 2 Nor. 1 C.W. 1 Nor. 3 Nor. 3 Nor. 3 C.W. 4 C.W.	Bl., St. Bl., St.
Yield different Necessary diff	ces not 11 ference 11	8 sign 9 —1.3 10 signi	Stewart. Ramsey. Chinook. 2 bushels. Rai  BERNARD Thatcher. Selkirk. Stewart. Ramsey. Chinook. ificant. Rainfa  Thatcher. Selkirk Stewart. Ramsey. Chinook. Thatcher. Selkirk Stewart. Ramsey. Chinook. Stewart. Ramsey. Chinook. Ghinook. Rainfa  Thatcher. Selkirk Stewart. Ramsey. Chinook. Glicant. Rainfa	22. 2 23. 6 19. 4 nfall—Ma  AND B4 14. 5 15. 8 15. 9 18. 8 22. 7 20. 6 21. 3 18. 8 22. 7 20. fall—May  JAMES 21. 2 22. 2 19. 1 16. 9 22. 1 11—May  tof damag	to August 4.1  MATHISON  ay to August  R. BENOIT  108  108  114  110  108  o August 4.6	MMOND, ————————————————————————————————————	HERSO:	65 66 64 HEL 60 57 65 65 62 63 61 66 66 66 66	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 C.W. 3 C.W. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 1 C.W. 1 Nor. 3 Nor. 3 Nor. 3 C.W. 1 Nor.	El., St.  I.  F.  F.  D.  D.
Yield different Necessary diff D	ces not 11 ference 11	8 sign 9 —1.3 10 signi	Stewart. Ramsey. Chinook. 2 bushels. Rai  BERNARD Thatcher. Selkirk. Ramsey. Chinook. Ificant. Rainfa  Thatcher. Selkirk. Stewart. Ramsey. Chinook. 5 bushels. Rai  Thatcher. Selkirk. Stewart. Ramsey. Chinook. 5 bushels. Rai  Thatcher. Selkirk. Stewart. Ramsey. Chinook. Thatcher. Selkirk. Stewart. Rainfa	22. 2 23. 6 19. 4 nfall—Ma  AND B4 14. 5 15. 8 15. 9 18. 8 22. 7 20. 6 21. 3 18. 8 22. 7 20. fall—May  JAMES 21. 2 22. 2 19. 1 16. 9 22. 1 11—May  tof damag	to August 4.1  MATHISON  ay to August  R. BENOIT  108  108  114  110  108  o August 4.6	MMOND, ————————————————————————————————————	HERSO:	65 66 64 HEL 60 57 65 65 62 63 61 66 66 66 66	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 C.W. 3 C.W. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 1 C.W. 1 Nor. 3 Nor. 3 Nor. 3 C.W. 1 Nor.	El., St.  I.  F.  F.  D.  D.
Yield different Necessary diff D	ces not 11 ference 11	8 sign 9 —1.3 10 signi	Stewart. Ramsey. Chinook. 2 bushels. Rai  BERNARD Thatcher. Selkirk. Stewart. Ramsey. Chinook. ificant. Rainfa  Thatcher. Selkirk Stewart. Ramsey. Chinook. Thatcher. Selkirk Stewart. Ramsey. Chinook. Stewart. Ramsey. Chinook. Ghinook. Rainfa  Thatcher. Selkirk Stewart. Ramsey. Chinook. Glicant. Rainfa	22. 2 23. 6 19. 4 nfall—Ma  AND B4 14. 5 15. 8 15. 9 18. 8 22. 7 20. 6 21. 3 18. 8 22. 7 20. fall—May  JAMES 21. 2 22. 2 19. 1 16. 9 22. 1 11—May  tof damag	to August 4.1  MATHISON  ay to August  R. BENOIT  108  108  114  110  108  o August 4.6	MMOND, ————————————————————————————————————	HERSO:	65 66 64 HEL 60 57 65 65 62 63 61 66 66 66 66	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 C.W. 3 C.W. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 1 C.W. 1 Nor. 3 Nor. 3 Nor. 3 C.W. 1 Nor.	El., St.  I.  F.  F.  D.  D.
Yield different Necessary diff D	ces not 11 ference 11	8 sign 9 —1.3 10 signi	Stewart. Ramsey. Chinook. 2 bushels. Rai  BERNARD Thatcher. Selkirk. Stewart. Ramsey. Chinook ificant. Rainfa  Thatcher. Selkirk. Stewart. Ramsey. Chinook 5 bushels. Rai  Thatcher. Selkirk Stewart. Ramsey. Chinook for the control of the control o	22. 2 23.6 19.4 nfall—Ma  AND B4 14.5 15.9 11.5 20.6 20.6 21.3 18.8 22.7 20.5 nfall—Ma  JAMES 21.2 22.2 19.1 16.9 21.1 16.9 21.1 11.—May tot damag Barker, R	to August 4.1  MATHISON  ay to August  R. BENOIT  108  108  114  110  108  o August 4.6	MMOND, 16 inches.  17. PLENT 26 25 27 23 3.23 3.23 inches 17. COUR. 25 45 38 25 5 inches.	HERSC.	65 66 64 HEL 60 57 65 65 62 63 61 66 66 66 66	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 C.W. 3 C.W. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 1 C.W. 1 Nor. 3 Nor. 3 Nor. 3 C.W. 1 Nor.	El., St.  I.  F.  F.  D.  D.
Yield different Necessary diff D	ces not 11 ference 11	8 sign 9 —1.3 10 signi	Stewart. Ramsey Chinook 2 bushels. Rai  BERNARD Thatcher Selkirk Stewart. Ramsey. Chinook ificant. Rainfa  Thatcher Selkirk Stewart. Ramsey Chinook. 5 bushels. Rai  Thatcher Selkirk Stewart. Ramsey Chinook. foundation of the control of the con	22. 2 23. 6 19. 4 nfall—Ma  AND BA 14. 5 15. 9 11. 4 15. 0 15. 8 15. 9 20. 6 21. 3 18. 8 22. 7 20. 5 nfall—May  JAMES 21. 2 21. 2 21. 1 16. 9 22. 1 11. May  Tof damag  Barker, R	to August 4.1  MATHISON  ay to August  R. BENOIT  108 114 110 108 20 August 4.6  (e by flooding osetown.	MMOND, ————————————————————————————————————	HERSO.	65 66 64 HEL 60 57 65 65 62 63 61 66 66 66 66	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 C.W. 3 C.W. 1 Nor. 1 Nor. 1 Nor. 2 Nor. 1 C.W. 1 Nor. 3 Nor. 3 Nor. 3 C.W. 1 Nor.	El., St.  I.  F.  F.  D.  D.
Yield differential D	11 ces not 11 .	8 sign 9 —1.3 10 signi	Stewart. Ramsey. Chinook. 2 bushels. Rai  BERNARD Thatcher. Selkirk. Stewart. Ramsey. Chinook. ificant. Rainfa  Thatcher. Selkirk Stewart. Ramsey. Chinook. Thatcher. Selkirk Stewart. Ramsey. Chinook. foant. Rainfa  Thatcher. Selkirk Stewart. Ramsey. Chinook. foant. Rainfa	22. 2 23.6 19.4 nfall—Ma  AND B4 14.5 15.8 15.9 18.8 22.7 20.6 21.3 18.8 22.7 20.5 16.1 May  JAMES 21.2 22.2 19.1 16.9 22.1 11.—May  Tof damag  Barker, R	to August 4.1  MATHISON  By to August  R. BENOIT  108  108  114  110  108  TO August 4.6  To by flooding osetown.	MMOND,	HERSC.	65 66 64 HEL 60 57 65 62 63 61 65 66 66 63 62 63 62 64 ught or ot	1 C.W. 1 C.W. 1 Nor. 2 Nor. 3 C.W. 3 C.W. 1 Nor. 1 Nor. 2 Nor. 1 C.W. 1 Nor. 3 Nor. 3 C.W. 1 Nor.	El., St.  I.  F.  F.  D.  D.
Yield differential D	11 ces not 11 .	8 sign 9 —1.3 10 signi ardee 7	Stewart. Ramsey. Chinook. 2 bushels. Rai  BERNARD Thatcher. Selkirk. Stewart. Ramsey. Chinook. ificant. Rainfa  Thatcher. Selkirk. Stewart. Ramsey. Chinook. 5 bushels. Rai  Thatcher. Selkirk. Stewart. Ramsey. Chinook. 6 bushels. Rai  Thatcher. Selkirk. Whiliam A. R. I	22. 2 23. 6 19. 4 nfall—Ma  AND BA 14. 5 15. 9 11. 5 15. 9 11. 6 12. 7 20. 5 nfall—Ma  JAMES 22. 7 20. 5 nfall—Ma  JAMES 21. 2 22. 2 19. 1 16. 9 22. 1 16. 9 22. 1 16. 9 22. 1 16. 9 22. 7 20. 5 A B B B B B B B B B B B B B B B B B B	to August 4.1  MATHISON  ay to August  R. BENOIT  108 114 110 108 108 108 108 108 108 108 108 108	MMOND, ————————————————————————————————————	HERSC.	65 66 64 HEL 60 57 65 65 62 63 61 65 66 66 66 63 62 63 62 64 ught or ot	1 C.W. 1 Nor.  2 Nor. 3 Nor. 3 C.W. 1 Nor. 1 Nor. 2 Nor. 1 C.W. 1 Nor. 3 Nor. 3 C.W. 1 Nor. 4 C.W. 1 Nor.	F. F. D. D. —
Yield different Necessary diff	11 ces not 11 .	8 sign 9 —1.3 10 signi ardec 7	Stewart. Ramsey. Chinook. 2 bushels. Rai  BERNARD Thatcher. Selkirk. Stewart. Ramsey. Chinook. ificant. Rainfa  Thatcher. Selkirk Stewart. Ramsey. Chinook. Stewart. Ramsey. Chinook. Ghinook. Thatcher. Selkirk Stewart. Ramsey. Chinook. Ghinook. Selkirk Stewart. Ramsey. Chinook. Thatcher. Selkirk Stewart. Ramsey. Chinook. Ghinook. Ghino	22. 2 23.6 19.4 nfall—Ma  AND B4 14.5 15.8 15.9 18.8 22.7 20.6 21.3 18.8 22.7 20.5 16.1 May  JAMES 21.2 22.2 19.1 16.9 22.1 11.—May  Tof damag  Barker, R	to August 4.1  MATHISON  By to August  R. BENOIT  108  108  114  110  108  TO August 4.6  To by flooding osetown.	MMOND,	HERSC.	65 66 64 HEL 60 57 65 62 63 61 65 66 66 63 62 63 62 64 ught or ot	1 C.W. 1 Nor.  2 Nor. 3 Nor. 3 C.W. 1 Nor. 1 Nor. 2 Nor. 1 C.W. 1 Nor. 3 Nor. 3 C.W. 1 Nor. 4 C.W. 1 Nor.	F. F. D. D. D.
Yield differential D	11 ces not 11 .	8 sign 9	Stewart. Ramsey. Chinook. 2 bushels. Rai  BERNARD Thatcher. Selkirk. Stewart. Ramsey. Chinook. ificant. Rainfa  Thatcher. Selkirk. Stewart. Ramsey. Chinook. 5 bushels. Rai  Thatcher. Selkirk. Stewart. Ramsey. Chinook. 6 bushels. Rai  Thatcher. Selkirk. Whiliam A. R. I	22. 2 23.6 19.4 nfall—Ma  AND B4 14.5 15.8 15.9 18.8 15.9 VANCE: 20.6 21.3 18.8 22.7 20.5 nfall—Ma  JAMES 21.2 22.2 19.1 16.9 22.1 18.9 3arker, R	to August 4.1  MATHISON  By to August  R. BENOIT  108 108 108 108 108 20 August 4.6  Re by flooding osetown.  POOL DI:  MILLER, S  95 97	MMOND,	HERSC.	65 66 64 HEL 60 57 65 65 62 63 61 65 66 66 63 62 63 62 63 62 64	1 C.W. 1 C.W. 1 Nor.  2 Nor. 3 Nor. 3 C.W. 1 Nor.  1 Nor. 2 Nor. 1 C.W. 1 Nor. 3 Nor. 3 Nor. 3 Nor. 3 Nor. 3 Nor. 4 C.W. 1 Nor.	F. F. D. D. —

#### Wheat Pool District 12-Continued

Cereal Variety Zone Dist	Sub Dis		Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw	Lbs. per measured bushel	Com- mercial grades	Grading
		GEN	EVIEVE	R. BURG	ART. TRA	YNOR			
2D 12	2	Thatcher	18.7	R. BURGA	25	1.5	64	2 Nor.	I.
		Selkirk	15.9		22	2.5	63	2 Nor.	I.
		Stewart	15.7	-	31	2.0	65	2 C.W. 3 C.W.	I.
		Ramsey	13.9	-	28	1.3	64	3 C.W.	Î., D.
		Chinook	15.9		26	1.5	65	2 Nor.	I.
Necessary difference	-2.0	63 bushels. Ra	infall—M	ay to Augus	t 7.11 inch	es.	, in the	N	
			AYTON I	I. KENNE	DY, LUSE	LAND			
2D 12	4	Thatcher	13.3	95	21	-	65	1 Nor.	-
		Selkirk	15.3	96	20	-	65	1 Nor.	·
		Stewart	10.1	109 110	17 16		65 63	2 C.W.	I. D.
		Ramsey	14.2	97	19		66	3 C.W. 1 Nor.	D.
Necessary difference	-2.	10 bushels. Ra	infall—Ma			es.	00	I Nor.	
2D 12	5	Thatcher	16.5	CE L. ME	26	1.3	64	2 Nor.	I.
		Selkirk	19.2	84	24	1.0	62	2 Nor.	Ĩ.
		Stewart	10.6	86	26	1.8	63	2 C.W.	I.
		Ramsey	9.7	86	24	2.0	63	2 C.W.	I.
A Principal of the last		Chinook	17.9	84	24	1.0	65	1 Nor.	
Necessary difference	-2.	19 bushels. Ra	infall—Ma	y to August	t 6.24 inche	es.		304 (228)	
		ALE	CK W. T	RYHUBA,	CACTUS	LAKE			
1D 12	6	Thatcher	17.6	83	-	2.0	62	2 Nor.	D.
		Selkirk	15.3	83	-	2.8	59	3 Nor.	D.
		Stewart	11.0	91	-	3.0	61	3 C.W. 4 C.W.	I.
		Ramsey	6.6	89	_	3.0	58	4 C.W.	D.
Necessary difference	-2.5	Chinook	15.9 infall—Ma	83 v to August	6.72 inche	2.0	63	1 Nor.	_
				- 1000000000000000000000000000000000000	4.11			-	-
2D 12	7	Thatcher	17.6	eCRACKE	N, RUTLA	5.0	61	2 Nor.	BI.
20 12	-	Selkirk	17.7		25	5.8	61	2 Nor.	BI.
		Stewart	18.0	_	27	5.0	64	3 C.W.	St., Bl.
		Ramsey	17.9	_	27	5.3	63	3 C.W.	D.
		Chinook	18.3		26	4.3	62	2 Nor.	BI.
Yield differences not	sign		all—May	to August 5.		14.64			
		DOLLG	LAS W	BULLERW	ELL. CUI	KNIFE			
3E 12	9	Thatcher		97		3.3	63	2 Nor.	BI.
	-	Selkirk	18.0	97	27	2.5	61	2 Nor.	I.
		Stewart	14.6	98	32	6.8	65	1 C.W.	
		Ramsey	13.5	98	27	4.3	65	1 C.W.	-
		Lake	18.9	96	27	3.5	62	2 Nor.	I.
Necessary difference	-2.4	12 bushels. Ra	infall—Ma	y to Augus	t 4.25 inche	es.	And Salaman		
		REI	NE L. LA	COURSIER	RE. HIGH	GATE			
3G 12	10		22.7	100	34	1.0	63	2 Nor.	I.
		Selkirk	15.1	101	30	1.0	61	2 Nor.	I.
		Stewart	18.1	101	41	2.0	63	3 C.W.	I., D.
		Ramsey	25.1	103	39	2.0	64	4 C.W.	D.
		Lake	21.1	101	35	2.0	61	2 Nor.	I.
Necessary difference	-4.5	66 bushels. Ra	infall—Ma	y to August	t 4.97 inche	es.	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Tasts dien	arde	d on account	of damas	re by floodi	no neste	hail dro	night or of	her cause	g.
2D 12		Joyce S. Jensen		e by moou	ng, pests,	nan, ur	ragne or or	mer cause	

			LYLE W	. JOHNSO	N, YOU	NG			
1D 13	2	Thatcher	19.2		28	1.7	64	1 Nor.	_
		Selkirk	21.8	_	25	1.3	62	2 Nor.	I.
		Stewart	22.1		32	2.7	66	1 C.W.	
		Ramsey	22.2		30	1.7	65	1 C.W.	-
		Chinook	19.2		25	1.7	65	1 Nor.	-
Yield differences not	sign						201101	- unitable	Y land out
aD 10				REDRICKS	SON, DU				-
2D 13	3	Thatcher	25.1	-	15	5.0	64	3 Nor.	F. F.
		Selkirk	19.6	_	15	5.0	63	3 Nor.	
		Stewart	25.4		20	7.5	66	3 C.W.	D., G.
		Ramsey	22.6		20	7.0	64	4 C.W.	D., G. D., G., E.
		Chinook	19.0		15	5.0	64	3 Nor.	F

#### Wheat Pool District 13-Continued

Cereal Variety Zone	Dist.	Sub- Dist		Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
			A	NN M. I	PEZDERIC.	GRAND	ORA			
2D	13	6	Thatcher	22.7	102		_	64	3 Nor.	Dk. G.
			Selkirk	24.4	97	_		63	3 Nor.	Dk. G.
			Stewart	21.1	105		-	64	3 C.W.	Dk. G.
			Ramsey	18.3	99	-		63	3 C.W.	Dk. G.
			Chinook	21.7	102	-		65	2 Nor.	I.
Yield difference	s not	signi		all—May	to August 3.	81 inches.				
			1 700	GARY	R. DENNIS	S. PERDI	E			
2D	13	7	Thatcher	22.5		29	1.0	62	2 Nor.	I.
			Selkirk	22.8	_	29	1.0	59	3 Nor.	I.
			Stewart	21.9		34	3.0	64	2 C.W.	Î.
			Ramsey	22.5		31	2.0	65	2 C.W.	i.
			Chinook	21.3		30	1.0	65	1 Nor.	
Yield difference	s not	signi			to August 4.		1.0		1 1401.	
			- 100	GERA	LD KISH	BREMEN				
2B	13	9	Thatcher	33.3		30	_	60	3 Nor.	F.
2D	13		Selkirk	28.0		27	_	59	3 Nor.	F.
			Stewart	31.0	11.	31		65	4 C.W.	F.
			Ramsey	33.1		30		63	4 C.W.	F.
			Chinook	30.5		27		62	4 Nor.	F.
Yield difference	s not	signi			to August 6:		19.15	02	4 1401.	F.
				ORVILL	E THEISE	N, PILGE	D			
3D	13	10	Thatcher	50.3	104	16	1.0	65	1 Nor.	
JD	13		Selkirk	38.4	106	17	1.0	64	2 Nor.	I.
			Stewart	47.1	108	20	1.0	67	1 C.W.	1.
			Ramsey	53.7	107	19	1.0	67	1 C.W.	
			railisev	33.1						
				477 4	105					
Necessary differ			Lake	47.4	105	18	1.0	64	1 Nor.	

			ROV D	. NOVAK	KUROE	T			
4A 14	1	Thatcher	23.1	· NOVILL	25	1.3	64	1 Nor.	
47 14	1	Selkirk	23.5		25	1.0	62	2 Nor.	I.
			22.4					1 C.W.	1.
		Stewart			26	3.0	66		-
		Ramsey	23.3	-	26	1.8	65	1 C.W.	-
		Lake	26.1	-	27	1.3	62	2 Nor.	I.
Yield differences not	sign	nificant. Rainfa	ıll—May t	to August 3	.80 inches.				
				IEBENSO	HN, CLA	IR			
3D 14	2	Thatcher	35.1		34	_	62	2 Nor.	BI.
		Selkirk	26.1		35		59	2 Nor.	
		Stewart	24.3		44		66	3 C.W.	St.
		Ramsey	21.5		41		64	3 C.W.	St., D.
		Lake	29.7		38		59	2 Nor.	St., D.
Necessary difference	6	70 bushala Dai		vi to Augus			33	2 1401.	the state of the state of
inecessary difference	-0.	19 busileis. Kai	man—Ivia	ty to Augus	t 4.00 mci	ies.	P. Marie		
				GHEED,	NOBLEVI			A COLUMN TO SERVICE	
4A 14	5	Thatcher	63.4	-	-	2.0	60	No. 6	G., F.
		Selkirk	68.4		-	3.8	59	No. 5	G., F.
		Stewart	58.2		-	9.0	61	6 C.W.	G., F.
		Ramsey	62.7		-	9.0	61	6 C.W.	G., F.
		Lake	62.1	33 FE 3 FV	100	2.0	60	No. 6	G., F.
Yield differences not	sign	ificant. Rainfa		o August 6	.43 inches.		00	110.0	0.,1.
		MI	CHAEL E	I. STASIU	K. RESO	URCE			
3F 14	8	Thatcher	40.0		33	1.0	64	1 Nor.	
	0	Selkirk	36.0		31	1.0	63	2 Nor.	I.
		Stewart	30.9		40	1.0	64	4 C.W.	F.
			32.4	7000	37	1.5	63	5 C.W.	F.
		Ramsey							
		Lake	39.3		35	1.0	64	3 Nor.	Dk. G.
Necessary difference-	-2.9	94 bushels. Rai	nfall—Ma	y to Augus	t 3.74 inch	ies	Maria Ra	No. No.	
		AF	CHIE W	. CHILDS	BROOB	SBY			
3D 14	9	Thatcher	44.1	102	31	1.5	64	2 Nor.	I.
		Selkirk	38.6	101	30	1.0	62	3 Nor.	G., I.
		Stewart	35.6	103	34	3.5	65	1 C.W.	
		Ramsey	32.8	103	33	3.5	65	2 C.W.	I.
			44.3	102	31	1.3	63	2 Nor.	1
1:66	2 1	Lake					03	Z INOT.	1.
Necessary difference-	-3.5	of busnels. Kan	nrali—Ma	y to August	4.81 inch	es.			

#### Wheat Pool District 14-Continued

Cereal									
Variety	Sub t. Dis	t. Varieties	Yield bus. per acre	Days seeding to ripening	height	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
K228070		CA	ROL A.	WALECKE	, RIDGE	DALE		2.37	
3F 14	10	Thatcher Selkirk	21.1	97 97		1.0	64	2 Nor. 3 Nor.	I. G., I. G. St
		Stewart	23.5	110	-	2.0	67	Ex.4C.W.	G., St.
		Ramsey	24.3	110	- 0	2.0	67	3 C.W.	I.
Yield differences no	ot sign	Lake nificant. Rainf	25.2 all—May		44 inches.	2.0	63	4 Nor.	D., G.,
				. POCOCK		IN			
3F 14	11		40.4	102	38	1.0	63	4 Nor.	D., G., 1
		Selkirk	47.5	102	39	1.0	64	4 Nor.	St., G., I., St.
		Stewart	46.0 49.5	108 107	46 44	3.0	62 64	4 C.W. Ex. 4 C.W	I., St.
		Ramsey Lake	44.8	102	41	1.8	62	4 Nor.	St., G.,
Necessary difference	e-4.	67 bushels. Ra	infall—M	ay to August	6.67 inch	es.			A L
3F 14		ed on account Lorraine Mars			ng, pests	, hail, dr	ought or o	ther causes	s.
		WI	HEAT	POOL D	ISTRIC	T 15		1 1/1	
		R	UDOLPI	H J. BULL,	MESKA	NAW			
3D 15	1	Thatcher	35.1	99	34	2.0	65	1 Nor.	-
		Selkirk Stewart	36.3 23.7	95 101	32 42	2.0 4.0	64 64	2 Nor. 1 C.W. 3 C.W.	I.
		Ramsey	26.1	101	40	3.0	66	3 C.W.	D.
		Lake	35.8	99	34	2.0	64	2 Nor.	I.
Necessary difference	ce—2.	86 bushels. Ra	infall—M	lay to Augus	t 4.15 inch	es.			
4D 45	,			A. STREL	AU, ORD	ALE	-	2 NI	Y
4B 15	6	Thatcher	47.1	_	38 36	1.0	64 63	2 Nor. 3 Nor.	I. Dk. G.
		Stewart	31.4		48	3.0	64	3 C.W.	Dk. G.
		Ramsey	41.0	_	46	3.0	63	3 C.W. 3 C.W.	Dk. G.
Necessary difference	e-4.	Lake 57 bushels. Ra	48.1 infall—M	av to August	40 t 4.23 inch	1.0 es.	63	3 Nor.	Dk. G.
	- ,.								-
4B 15	7	Thatcher	33.3	J. DURET	, ORME	1.0	65	2 Nor.	I.
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Selkirk	37.6	-		1.0	64	3 Nor.	G., I.
		Stewart	24.0	_	-	4.0	64	3 C.W. 3 C.W.	Dk. G.
		Ramsey Lake	30.9 36.3			1.0	65 64	3 C.W. 3 Nor.	Dk. G. G., I.
Necessary difference	ce—5.	75 bushels. Ra	infall—M	ay to August	t 6.19 inch	es.			THE STATE OF THE S
21				GOODMAN				2 M	
3J 15	8	Thatcher	_	113 111	27 28	3.3	65 64	2 Nor. 2 Nor.	I. I.
		Stewart	_	120	32	5.0	65	3 C.W.	Dk. G.
		Ramsey		120	28	2.3	63	3 C.W. 4 C.W.	D.
Test damaged by h	irds-	Lake vields not relia	ble. Rain	113 nfall—May to	31 o August 4	3.0 1.87 inches	65	2 Nor.	I.
	card	ed on account Frank A. Nag	of dama	ge by floodi				her causes	
				POOL D	ISTRIC	T 16			
3E 16	5		<b>KEN W.</b> 32.5	WESSON, 1	MAIDSTO 35	1.0	64	1 Nor.	
J 10	,	Selkirk	28.7	94	34	1.0	62	2 Nor.	I.
		Stewart	25.7	102	45	2.0	65	2 C.W.	I.
		Ramsey	28.4	102	38	2.0	65	2 C.W.	I.
Necessary difference	e-2.	Lake 67 bushels. Ra	32.0 infall—M	97 ay to August	36 t 4.51 inch	1.0 es.	63	2 Nor.	I.
				M. DAVIS.					
3E 16	6	Thatcher	19.5	90	24 22	1.5	63	1 Nor.	-
		Selkirk	18.7	89	22	1.3	62	2 Nor.	I.
		Stewart	16.6 17.5	96 96	28 25	5.3 2.8	65 63	1 C.W. 3 C.W.	D.
		Ramsey Lake	18.9	94	24	1.0	62	2 Nor.	I.
Yield differences no	ot sigr								
				. GEORGE					
4B 16	9	Thatcher	13.3	-	24 21	1.5	59 59	3 Nor.	I., Sp.
		Selkirk Stewart	12.3 15.4		30	3.0	63	3 Nor.	I., Sp. I., Sp. I., Sp.
		Ramsey	14.9		29	2.3	63	4 C.W. 4 C.W.	I., Sp.
		Lake	13.2		26	2.0	59	3 Nor.	I., Sp.
Yield differences no	ot sign	nificant. Rainfa	all—May	to August 2.	15 inches.				

#### Wheat Pool District 16-Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw	Lbs. per measured bushel	Com- mercial grades	Grading remarks
	17		GI	ERNSEY	W. WALI	KER, RAN	NGER			
4B	16	10	Thatcher	28.6	106	29	2.0	64	4 Nor.	F.
			Selkirk	28.7	103	28	1.0	63	4 Nor.	F.
			Stewart	21.0	118	36	4.3	64	4 C.W.	F.
		Ramsey	27.6	117	34	2.5	65	4 C.W.	F.	
			Lake	27.9	111	30	1.0	63	No. 5	F., St.
Necessary diffe	rence			infall—Ma	ay to Augus	t 7.77 inch	es.			
		Also III	C.	DALE M.	ADDEN, S	OUTH MA	AKWA			
3H	16	11	Thatcher	35.4	_	_		63	4 Nor.	F. F.
		Selkirk	26.7			-	62	4 Nor.	F.	
		Stewart	29.9		_		62	5 C.W.	F., St.	
			Ramsey	27.5	_	-	-	63	5 C.W.	F., St.
			Lake	29.6		_	A 157 157	62	4 Nor.	F.
Yield difference	s not	signi	ficant. Rainfa	II-May	to August 6.	24 inches.				

# OAT TESTS

A total of 46 oat tests were conducted in 1958. They were located only in a number of Cereal Variety Zones where fairly large quantities of oats are grown. This area included the following Cereal Variety Zones: 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3J, 4A and 4B (the location of these zones is shown on the map on page 48). All oat tests contained the five varieties, Exeter, Rodney, Garry, Clintland and Fundy.

### DESCRIPTION OF VARIETIES

NOTE—For a report on the official recommendations and the yielding ability of these varieties, see "Summarization According to Cereal Variety Zones" on page 37.

Exeter—Exeter is a late maturing, large seeded variety with tall, slightly weak straw. It is resistant to most, but not all, races of stem rust, but is moderately susceptible to leaf rust and the smuts.

Rodney was developed by the Laboratory of Cereal Breeding, Winnipeg. It is mid-late in maturity, high yielding and has strong straw. Rodney is resistant to most races of stem and leaf rust and to loose and covered smut. It has large, plump kernels. The hull tends to shed if not threshed with care.

Garry was developed at the Laboratory of Cereal Breeding, Winnipeg, and later reselected for resistance to Victoria blight. It is resistant to all the races of rust now prevalent, and also to smut. Garry has a plump kernel which is slightly smaller than that of Rodney. It has strong straw. Garry is medium early in maturity.

Clintland was developed at the Agricultural Experiment Station, Lafayette, Indiana. It is an early maturing variety with short, strong straw. It is resistant to some but not all races of stem and crown rust, resistant to smut and to Victoria blight.

Fundy was developed by the Experimental Farm at Fredricton, New Brunswick in co-operation with the Central Experimental Farm, Ottawa. It is an early maturing variety with mid-tall, mid-strong straw. It is resistant to some races of rust, resistant to Victoria blight, and semi-resistant to smut.

Table No. 25—Average Yields in Bushels Per Acre Summarized by Cereal Variety Zones

Cereal** Variety Zone	No. of Satis- factory Tests	Exeter	Rodney	Garry	Clintland	Fundy	Necessary Difference in bu.*
3A	3	38.1	32.7	35.0	22.2	32.7	N.S.
3B.	4	82.3	84.1	79.7	59.1	74.2	5.00
3C	9	47.4	43.8	43.7	33.3	45.4	2.26
3D	5	84.6	78.1	76.3	50.0	71.5	4.40
3E	2	45.4	42.1	43.6	28.2	44.2	N.S.
3F	2	99.9	89.8	87.7	54.7	83.5	N.S.
3G	4	65.4	60.5	58.8	41.5	60.5	N.S.
31	2	61.4	59.1	57.2	37.8	53.0	4.74
4B	2	91.7	93.8	84.0	. 53.8.	74.4	9.21

\*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular zone group. N.S.—Yield differences not significant.

\*\*See zone map, page 48.

Table No. 25. On an average Exeter outyielded the other four varieties. It placed first in seven of these zones and second in the remaining two. Rodney placed second on an average basis. Garry placed third on an average basis with considerable variation in its placing from one zone to another. Fundy was fairly consistently lower in yield than the three varieties mentioned previously, and Clintland ranked fifth in all of these zones.

Table No. 26—Average Number of Days From Seeding to Ripening Summarized by Cereal Variety Zones

Cereal Variety					
Zone	Exeter	Rodney	Garry	Clintland	Fundy
3A	96.0	96.0	95.3	94.3	93.0
3B	98.8	99.3	98.3	87.5	92.8
3C		88.5	88.8	87.8	87.4
D	92.0	92.3	91.8	90.0	89.8
E	85.7	87.3	84.3	78.0	82.7
F	100.0	92.0	92.0	83.0	87.0
G	96.7	96.7	97.3	100.7	95.7
I	95.5	96.0	97.0	91.5	94.5
IB.	92.7	91.3	90.7	87.7	86.7

Table No. 26. The two varieties Clintland and Fundy were considerably earlier in maturity than the remaining three. On an average basis, Garry and Rodney placed third and fourth respectively with Exeter generally maturing later than the others.

Table No. 27—Average Height of Plants in Inches Summarized by Cereal Variety Zones

Cereal Variety Zone		Exeter	Rodney	Garry	Clintland	Fundy
3A		30.3	29.0	30.0	25.0	30.0
3B		29.8	30.3	31.5	29.8	33.3
3C	 	27.0	27.8	28.9	25.8	28.8
3D		34.2	33.0	34.1	28.2	32.8
3E.		25.0	25.7	26.3	26.7	27.3
3F		34.0	34.0	35.0	32.0	35.0
3G		29.6	29.6	29.8	24.6	28.8
31		33.5	33.0	34.5	29.0	34.5
4B		28.3	24.3	26.7	18.3	27.0

Table No. 27. With a few exceptions, the differences in plant height in these zones were not of economic significance. Clintland was generally shorter than the other four varieties and in several zones the difference amounted to as much as six inches. In some of the northern zones particularly, shorter straw is desirable because it has less tendency to lodge.

Table No. 28—Average Straw Strength of Plants On the Basis 1 (Strong) to 9 (Weak) Summarized by Cereal Variety Zones

Cereal Variety Zone	Exeter	Rodney	Garry	Clintland	Fundy
3Δ	2.0	2.1	2.0	1 3	2.5
3B	3.0	1.4	1.7	1.6	3.4
20	2.5	1.7	1.9	1.7	2.1
2D	2.8	1.8	1.9	3.7	2.8
20	3.8	3.7	4.0	4.1	4.3
3G	3.6	3.1	3.4	3.0	3.6
31	2.7	1.3	1.3	1.7	2.4
4B	 4.0	3.0	2.7	5.0	6.2

Table No. 28. Rodney showed generally stronger straw than the other varieties. It placed first in three of these zones and tied for first place in two others. It placed second in two zones and fourth in the remaining one. Garry placed second on an average basis followed by Clintland. Exeter and Fundy placed fourth and fifth respectively on an average basis.

Table No. 29—Average Weight Per Measured Bushel Summarized by Cereal Variety Zones

Cereal Variety Zone	Exeter	Rodney	Garry	Clintland	Fundy
3A	34.8	37.5	36.0	35.8	34.5
3B	36.0	38.3	36.5	37.0	35.0
3C	35.6	37.9	35.8	36.9	35.0
3D	37.0	38.7	37.2	36.5	35.3
3E	34.3	36.3	34.7	36.3	33.7
3F	38.5	40.5	38.5	38.0	36.5
3G	36.4	36.4	35.8	35.2	34.4
3J	38.0	40.0	39.0	36.0	36.5
4B	37.0	39.0	38.3	36.0	36.0

Table No. 29. On an average basis, the varieties ranked in the following order in regard to bushel weight: Rodney, Garry, Clintland, Exeter, Fundy. This order was fairly consistent throughout the area.

Table No. 30-Percentage of Commercial Grades by Varieties

1 C.W.	2 C.W.	3 C.W.	Ex 1 Fd.	1 Fd. %	2 Fd.
2.6	12.8	25.6	17.9	30.8	10.3
7.7	23.1	15.4	30.8	17.9	5.1
2.6	20.5	25.6	. 12.8	28.2	10.3
2.6	20.5	20.5	12.8	30.8	12.8
	7.7	20.5	2.6	48.7	20.5
	% 2.6 7.7	% %  2.6 12.8  7.7 23.1  2.6 20.5  2.6 20.5	% % % % 2.6 12.8 25.6 7.7 23.1 15.4 2.6 20.5 25.6 2.6 20.5 20.5	%     %     %     %       2.6     12.8     25.6     17.9       7.7     23.1     15.4     30.8       2.6     20.5     25.6     12.8       2.6     20.5     20.5     12.8       2.6     20.5     12.8	%     %     %     %       2.6     12.8     25.6     17.9     30.8       7.7     23.1     15.4     30.8     17.9       2.6     20.5     25.6     12.8     28.2       2.6     20.5     20.5     12.8     30.8

Table No. 30. The three varieties Rodney, Garry and Clintland all graded well with only a slight margin in favor of Rodney. Exeter ranked fourth and Fundy was considerably lower in grade.

# Summarization According to Cereal Variety Zones

No oat tests were conducted by the Wheat Pool during 1956 and 1957 so it will not be possible to give a comparison over a period of several consecutive years but some of the same varieties were tested in 1955 and reference will be made in this section to yields in that year.

Table No. 31—Summarized Results for Zone 3A

	Exeter	Rodney	Garry	Clintland	Fundy
Yield in bushels per acre*	38.1	32.7	35.0	22.2	32.7
Days from seeding to ripening	96.0	96.0	95.3	94.3	93.0
Height of plants in inches	30.3	29.0	30.0	25.0	30.0
Straw strength (basis 1-strong to 9-weak)	2.0	2.1	2.0	1.3	2.5
Bushel weight in pounds	34.8	37.5	36.0	35.8	34.5
Commercial grades in percentage: 2 C.W	25.0	25.0		25.0	
3 C.W	25.0	25.0	50.0	25.0	25.0
1 Fd	25.0	50.0	50.0	50.0	75.0
2 Fd	25.0	-	-	-	

<sup>\*</sup>Yield differences not significant.

Table No. 31. Exeter outyielded the other four varieties tested in this zone in 1958. However, in 1955, the last year in which it was tested by the Wheat Pool, it placed fourth of the four varieties. Because Exeter is susceptible to some races of rust which are a threat in this zone, it is not recommended.

Garry placed second in yield in this zone in 1958, and also in 1955. It is rust resistant and is officially recommended for the zone.

Rodney and Fundy tied for third place in this zone in 1958. Rodney yielded well in 1955 also, outyielding the other three varieties tested in that year. It is officially recommended for the zone. Fundy was tested by the Wheat Pool for the first time in 1958.

Clintland was outyielded by the other four varieties tested by the Wheat Pool in 1958. It was outyielded in all of the zones in which oats were tested in 1958. Clintland does not appear to have any particular adaptation to this area.

Table No. 32—Summarized Results for Zone 3B

	Exeter	Rodney	Garry	Clintland	Fundy
Yield in bushels per acre*	82.3	84.1	79.7	59.1	74.2
Days from seeding to ripening	98.8	99.3	98.3	87.5	92.8
Height of plants in inches	29.8	30.3	31.5	29.8	33.3
Straw strength (basis 1-strong to 9-weak)	3.0	1.4	1.7	1.6	3.4
Bushel weight in pounds	36.0	38.3	36.5	37.0	35.0
Commercial grades in percentage: 2 C.W		25.0		25.0	
3 C.W	25.0	_	25.0	_	25.0
Ex. 1 Fd	25.0	75.0	25.0	25.0	25.0
1 Fd	50.0	_	50.0	50.0	50.0

<sup>\*</sup>Necessary difference-5.00 bushels.

Table No. 32. Rodney placed first in yield in this zone in both 1955 and 1958. It appears adapted to this area and because of its rust resistance, it is officially recommended for the zone.

Exeter ranked second in this zone in 1958. It placed third in 1955. Because of its susceptibility to some races of rust, it is not recommended for this zone.

Garry placed third in yield in this zone in 1958. It placed second of the four varieties tested in this zone in 1955. Because its rust resistance is an important factor in this zone, it is officially recommended.

Fundy placed fourth in yield in 1958, its first year of testing by the Wheat Pool.

Clintland was substantially outyielded by the other four varieties tested in this zone.

Table No. 33—Summarized Results for Zone 3C
(9 successful tests)

And the second s	Exeter	Rodney	Garry	Clintland	Fundy
Yield in bushels per acre*	47.4	43.8	43.7	33.3	45.4
Days from seeding to ripening	89.3	88.5	88.8	87.8	87.4
Height of plants in inches.	27.0	27.8	28.9	25.8	28.8
Straw strength (basis 1-strong to 9-weak)	2.5	1.7	1.9	1.7	2.1
Bushel weight in pounds	35.6	37.9	35.8	36.9	35.0
Commercial grades in percentage: 1 C.W	-	20.0		10.0	
2 C.W	-	20.0	30.0	20.0	
3 C.W	40.0	20.0	40.0	40.0	30.0
Ex. 1 Fd	30.0	30.0	10.0	10.0	72279
1 Fd	10.0		10.0	0 1 <u>-</u>	50.0
2 Fd	20.0	10.0	10.0	20.0	20.0

<sup>\*</sup>Necessary difference-2.26 bushels.

Table No. 33. Exeter placed first in yield in this zone in both 1955 and 1958. However, these were both rust free years and less satisfactory results might be expected under rust conditions. For this reason, it is not recommended for the zone.

**Fundy** placed second in this zone in its first year of testing by the Wheat Pool. It requires further testing to accurately assess its yielding ability.

Rodney placed third in this zone in 1958. It placed second in 1955. Its rust resistance is an important feature in this zone and it is officially recommended.

Garry placed fourth in this zone in 1958, and third in 1955. It is recommended for this zone because of its rust resistance.

Clintland was considerably lower in yield than the other four varieties tested in this zone in 1958. It does not appear to be adapted to this area.

Table No. 34—Summarized Results for Zone 3D
(5 successful tests)

	Exeter	Rodney	Garry	Clintland	Fundy
Yield in bushels per acre*	. 84.6	78.1	76.3	50.0	71.5
Days from seeding to ripening		92.3	91.8	90.0	89.8
Height of plants in inches	. 34.2	33.0	34.1	28.2	32.8
Straw strength (basis 1-strong to 9-weak)		1.8	1.9	3.7	2.8
Bushel weight in pounds		38.7	37.2	36.5	35.3
Commercial grades in percentage: 2 C.W		33.3	33.3	16.7	-
3 C.W			_		16.7
Ex. 1 Fd	. 33.3	50.0	16.7	33.3	
1 Fd	. 33.4	16.7	50.0	33.3	50.0
2 Fd			1	16.7	33.3

<sup>\*</sup>Necessary difference-4.40 bushels.

Table No. 34. Exeter outyielded the other four varieties tested in this zone in 1958. It placed first in 1955 as well. It appears well adapted to this area and is officially recommended.

Rodney placed second in this zone in 1958 and third in 1955. It has yielded well in this zone in other tests and is officially recommended.

Garry placed third in 1958 and second in 1955. It is officially recommended for this zone.

Fundy placed fourth in this zone in its first year of testing by the Wheat Pool. Further testing is required to determine its adaptability.

Clintland yielded well below the other four varieties in 1958.

Table No. 35—Summarized Results for Zone 3E
(2 successful tests)

Exeter	Rodney	Garry	Clintland	Fundy	
45.4	42.1	43.6	28.2	44.2	
85.7	87.3	84.3	78.0	82.7	
25.0	25.7	26.3	26.7	27.3	
3:8	3.7	4.0	4.1	4.3	
	36.3	34.7	36.3	33.7	
_	33.3	33.3	33.3	33.3	
66.7	66.7	33.3	66.7	-	
33.3	-	33.4	_	66.7	
	45.4 85.7 25.0 3.8 34.3	45.4 42.1 85.7 87.3 25.0 25.7 3.8 3.7 34.3 36.3 — 33.3 66.7 66.7	45.4 42.1 43.6 85.7 87.3 84.3 25.0 25.7 26.3 3.8 3.7 4.0 34.3 36.3 34.7 — 33.3 33.3 66.7 66.7 33.3	45.4 42.1 43.6 28.2 85.7 87.3 84.3 78.0 25.0 25.7 26.3 26.7 3.8 3.7 4.0 4.1 34.3 36.3 34.7 36.3 — 33.3 33.3 33.3 66.7 66.7 33.3 66.7	

\*Yield differences not significant.

Table No. 35. Exeter placed first in this zone in 1955 and in 1958. It is officially recommended for the zone.

Fundy placed second in yield in its first year of testing by the Wheat Pool. It requires further testing to determine its adaptability.

Garry placed third in yield in both 1955 and 1958. It yielded well in other tests in this zone and is officially recommended.

Rodney placed fourth in this zone in 1958. It yielded better in 1955 when it placed second. It has yielded well in other tests in the zone and is officially recommended.

Clintland was outyielded by the other four varieties by a wide margin in 1958.

In addition to the recommended varieties mentioned above, Eagle is also officially recommended.

Table No. 36—Summarized Results for Zone 3F
(2 successful tests)

	Exeter	Rodney	Garry	Clintland	Fundy
Yield in bushels per acre*	99.9	89.8	87.7	54.7	83.5
Days from seeding to ripening	100.0	92.0	92.0	83.0	87.0
Height of plants in inches	34.0	34.0	35.0	32.0	35.0
Straw strength (basis 1-strong to 9-weak)	_				4
Bushel weight in pounds	38.5	40.5	38.5	38.0	36.5
Commercial grades in percentage: 2 C.W	50.0	50.0	50.0	50.0	50.0
3 C.W	50.0	50.0	50.0	50.0	50.0

\*Yield differences not significant.

Table No. 36. Exeter outyielded the other four varieties tested in this zone in 1958. No oat tests were located in this zone in 1955. In other tests in this zone, Exeter has yielded well. It is officially recommended.

Rodney placed second in yield in this zone in 1958. It is well adapted to the area and is officially recommended for this zone.

Garry ranked third in this zone in 1958. It, too, is well adapted to the area and is officially recommended for the zone.

Fundy placed fourth in yield in 1958. It has not been tested sufficiently to determine its adaptability in this area.

Clintland was outyielded by a wide margin by the other varieties tested in this zone in 1958. It does not appear adapted to this area.

In addition to the varieties mentioned above, Eagle is also officially recommended for this zone.

Table No. 37—Summarized Results for Zone 3G
(4 successful tests)

	Exeter	Rodney	Garry	Clintland	Fundy
Yield in bushels per acre*	65.4	60.5	58.8	41.5	60.5
Days from seeding to ripening	96.7	96.7	97.3	100.7	95.7
Height of plants in inches	29.6	29.6	29.8	24.6	28.8
Straw strength (basis 1-strong to 9-weak)	3.6	3.1	3.4	3.0	3.6
Bushel weight in pounds	36.4	36.4	35.8	35.2	34.4
Commercial grades in percentage: 1 C.W	_	20.0	_		_
2 C.W	20.0	_	20.0		-
3 C.W		-	-	-	20.0
Ex. 1 Fd		20.0	20.0	20.0	
1 Fd	80.0	40.0	20.0	60.0	40.0
2 Fd		20.0	40.0	20.0	40.0

<sup>\*</sup>Yield differences not significant.

Table No. 37. Exeter outyielded the other four varieties tested in this zone in 1958. It placed first in 1955 as well. Exeter is well adapted to this area and is officially recommended.

Rodney and Fundy yielded equally well in this zone in 1958. Rodney placed second in 1955 as well, It is officially recommended for the zone. Fundy requires further testing to accurately assess its adaptation.

Garry yielded only slightly less than Rodney and Fundy in this zone in 1958. It placed fourth in yield in 1955. However, it has yielded well in other tests in this zone and is officially recommended.

Clintland yielded considerably less than the other four varieties tested in this zone. While the yield difference is not significant in this zone, the low yield of this variety in other zones suggests that it is not well adapted.

In addition to the recommended varieties mentioned above, Eagle and Fortune are officially recommended for this zone.

### Cereal Variety Zone 3H

Only one successful oat test was located in this zone in 1958. It was conducted by Richard Hutter of Goodsoil and can be found in the section "Indivual Summarized Results of all Tests—Oats" on page 47.

Eagle, Fortune and Victory are officially recommended for the zone.

Table No. 38—Summarized Results for Zone 3J
(2 successful tests)

	Exeter	Rodney	Garry	Clintland	Fundy
Yield in bushels per acre*	61.4	59.1	57.2	37.8	53.0
Days from seeding to ripening	95.5	96.0	97.0	91.5	94.5
Height of plants in inches		33.0	34.5	29.0	34.5
Straw strength (basis 1-strong to 9-weak)	2.7	1.3	1.3	1.7	2.4
Bushel weight in pounds	38.0	40.0	39.0	36.0	36.5
Commercial grades in percentage: 1 C.W	50.0		50.0		
2 C.W.		50.0	_	50.0	50.0
Ex. 1 Fd.	50.0	50.0	50.0		
1 Fd				50.0	50.0

<sup>\*</sup>Necessary difference-4.74 bushels.

Table No. 38. No oat tests were conducted in this zone in 1955 so only one year's yield information is available from Wheat Pool tests. Exeter out-yielded the other four varieties tested in 1958. It has yielded well in other tests in this area and is officially recommended.

Rodney placed second in yield in 1958. It also is officially recommended for the zone.

Garry placed third in this zone in 1958. It has yielded well in other tests and is officially recommended.

Fundy placed fourth in this zone in its first year of testing by the Wheat Pool. It requires further testing to determine its adaptability.

Clintland was outyielded by the other varieties by a substantial margin. It does not appear adapted to this area.

In addition to the recommended varieties mentioned above, Eagle is also officially recommended.

### Cereal Variety Zone 4A

Only one successful test was located in this zone in 1958. It was conducted by Donald Larson of Garrick and can be found in the section "Individual Summarized Results of all Tests—Oats" on page 46.

Exeter, Garry and Rodney are officially recommended for this zone.

Table No. 39—Summarized Results for Zone 4B

	Exeter	Rodney	Garry	Clintland	Fundy
Yield in bushels per acre*	91.7	93.8	84.0	53.8	74.4
Days from seeding to ripening	92.7	91.3	90.7	87.7	86.7
Height of plants in inches	28.3	24.3	26.7	18.3	27.0
Straw strength (basis 1-strong to 9-weak)	4.0	3.0	2.7	5.0	6.2
Bushel weight in pounds	37.0	39.0	38.3	36.0	36.0
Commercial grades in percentage: 3 C.W	33.3	_	33.3	-	
Ex. 1 Fd	-	33.3	_	-	
1 Fd	66.7	66.7	66.7	66.7	100.0
2 Fd	-	220		33.3	-

<sup>\*</sup>Necessary difference-9.21 bushels.

Table No. 39. Rodney outyielded the other four varieties tested in this zone in 1958. In 1955 it placed second. However, in other tests it has not yielded as well and it is not officially recommended for the zone.

Exeter placed second in yield in this zone in 1958 and it placed first in 1955. It has yielded well in other tests as well and is officially recommended.

Garry placed third in this zone in both 1955 and 1958. It is not officially recommended for the zone.

Fundy placed fourth in this zone in its first year of testing by the Wheat Pool. It requires further testing to determine its adaptability.

Clintland was substantially outyielded by the other four varieties tested in this zone in 1958.

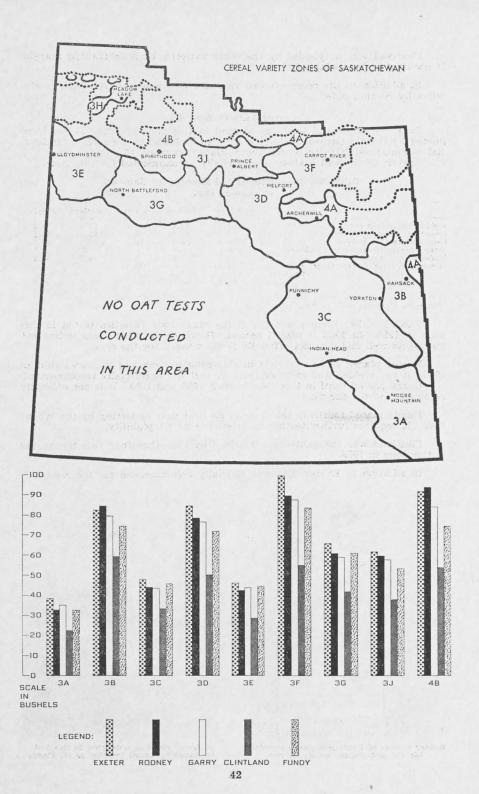
In addition to Exeter, Eagle is officially recommended for the zone.



Rodney Duczek of Grayson is shown examining his oat test shortly before harvest.



A heavy stand of oats grew in this test conducted by Lynell Pylatiuk at St. Front.



## Individual Summarized Results of All Tests-Oats

The results of all successful oat tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 7, headed, "Facts to Be Remembered in Reading and Studying Results."

Important—It should be kept in mind that the results of a single test should not be used on the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization According to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

WHEAT POOL DISTRICT 1

For an explanation of the abbreviations under "Growing Remarks" see page 8.

Cereal Variety Zone	Sub- Dist.Dist		Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Gradin
			CHARL	ES W. GII	ROY. OX	BOW	Albiford BRJ	in the mail !!	r grades vi
3A	1 3	Exeter	45.7	85	27	3.3	36	1 Fd.	G.
		Rodney	44.2	87	27	3.0	38	1 Fd.	G.
		Garry	41.6	85	29	2.5	37	1 Fd.	G.
		Clintland	28.1	79	24	1.3	37	1 Fd.	G.
		Fundy	37.5	. 80	29	4.0	35	1 Fd.	G.
Necessary di	fference—	6.22 bushels. 1							
Tes	sts discar	ded on accoun	at of dan	age by floo	ding, pest	ts, hail, d	rought or o	ther causes	
3A	1 1 10	Lloyd I. Redpa	ath, Gains	borough.	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		*4PIRK		
3A	1 10	Richard H. Sty	y Kiiuis, Ca	illyie.		9 11			
	3.1					0.6			
<i>30</i>	14	V	VHEA	r Pool	DISTR	ICT 6	The second second		and the later
				IE LEIBEL					
3C	6 7	Exeter	26.8	100	22	3.0	32	2 Fd.	
		Rodney	27.6	100	22	2.3	36	2 Fd.	G.
		Garry	23.3	100	23	2.0	31	2 Fd.	
		Clintland	22.5	100	23	2.5	34	2 Fd.	G.
		Fundy	27.9	100	24	3.0	35	2 Fd.	G.
Yield differer	nces not si	gnificant. Rai	nfall—Ma	y to August	2.19 inches	S.			
			XAMEA	N- 61 271	-U-18 T	TARLE -			
	611 60	V	WHEAT	L BOOL	DISTR	ICT 7	(o.lac.)		
				. McLARE	N, MARY	FIELD			
3A	7 1	Exeter	25.6	98	38	2.8	31	2 Fd.	
3A	7 1		25.6 23.4	98	38	2.8 3.0	35	1 Fd.	G.
3A	7 1	Exeter Rodney Garry	25.6 23.4 22.0	98 98 98	38 34 35	2.8 3.0 3.3	35 36	1 Fd. 1 Fd.	G. G.
3A	7 1	Exeter	25.6 23.4 22.0 7.5	98 98 98 106	38 34 35 27	2.8 3.0 3.3 2.0	35 36 35	1 Fd. 1 Fd. 1 Fd.	
		Exeter	25.6 23.4 22.0 7.5 20.0	98 98 98 106 98	38 34 35 27 36	2.8 3.0 3.3 2.0 3.5	35 36	1 Fd. 1 Fd.	G.
		Exeter Rodney Garry	25.6 23.4 22.0 7.5 20.0	98 98 98 106 98	38 34 35 27 36	2.8 3.0 3.3 2.0 3.5	35 36 35	1 Fd. 1 Fd. 1 Fd.	G.
Yield differer	nces not si	Exeter	25.6 23.4 22.0 7.5 20.0 nfall—Ma	98 98 98 106 98 y to August	38 34 35 27 36 6.12 inches	2.8 3.0 3.3 2.0 3.5 S.	35 36 35 34	1 Fd. 1 Fd. 1 Fd. 1 Fd.	G.
Yield differer		Exeter	25.6 23.4 22.0 7.5 20.0 nfall—Ma	98 98 98 106 98 y to August W. FOLBA	38 34 35 27 36 6.12 inches	2.8 3.0 3.3 2.0 3.5 s.	35 36 35 34 37	1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd.	G. G.
	nces not si	Exeter	25.6 23.4 22.0 7.5 20.0 nfall—Ma 2NNETH 20.6 22.8	98 98 98 106 98 y to August W. FOLBA 105 103	38 34 35 27 36 6.12 inches	2.8 3.0 3.3 2.0 3.5 s. THORST 1.0 1.0	35 36 35 34 37 39	1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 2 C.W.	G.
Yield differer	nces not si	Exeter	25.6 23.4 22.0 7.5 20.0 nfall—Ma <b>ENNETH</b> 20.6 22.8 19.7	98 98 106 98 y to August W. FOLBA 105 103 103	38 34 35 27 36 6.12 inches AR, WIND 31 30 29	2.8 3.0 3.3 2.0 3.5 s. THORST 1.0 1.0	35 36 35 34 37 39 35	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 2 C.W. 3 C.W.	G. G.
Yield differer	nces not si	ExeterRodneyGarryClintlandFundygnificant. Rain  ExeterRodneyGarryCKF	25.6 23.4 22.0 7.5 20.0 nfall—Ma 2NNETH 20.6 22.8 19.7 12.6	98 98 106 98 y to August W. FOLBA 105 103 103 98	38 34 35 27 36 6.12 inches 31 30 29 26	2.8 3.0 3.3 2.0 3.5 s. THORST 1.0 1.0 1.0	35 36 35 34 37 39 35 35 35	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 2 C.W. 3 C.W. 3 C.W.	G. G.
Yield differer	nces not si	Exeter Rodney Garry Clintland. Fundy. gnificant. Rai  Exeter. Rodney Garry Clintland. Fundy.	25.6 23.4 22.0 7.5 20.0 nfall—Ma 20.6 22.8 19.7 12.6 23.2	98 98 106 98 y to August W. FOLBA 105 103 103 98 101	38 34 35 27 36 6.12 inches 1R, WIND 31 30 29 26 30	2.8 3.0 3.3 2.0 3.5 s. THORST 1.0 1.0 1.0	35 36 35 34 37 39 35 35 35	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 2 C.W. 3 C.W. 3 C.W. 3 C.W.	G. G.
Yield differen	nces not si	ExeterRodneyGarryClintlandFundygnificant. Rain  ExeterRodneyGarryCKF	25.6 23.4 22.0 7.5 20.0 nfall—Ma 20.6 22.8 19.7 12.6 23.2	98 98 106 98 y to August W. FOLBA 105 103 103 98 101	38 34 35 27 36 6.12 inches 1R, WIND 31 30 29 26 30	2.8 3.0 3.3 2.0 3.5 s. THORST 1.0 1.0 1.0	35 36 35 34 37 39 35 35 35	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 2 C.W. 3 C.W. 3 C.W. 3 C.W.	G. G.
Yield differen	7 4	Exeter Rodney Carry Clintland. Fundy gnificant. Rai  Exeter Rodney Garry Clintland. Fundyyields not included.	25.6 23.4 22.0 7.5 20.0 nfall—Ma ENNETH 20.6 22.8 19.7 12.6 23.2 uded in zo	98 98 106 98 y to August W. FOLBA 105 103 103 98 101	38 34 35 27 36 6.12 inches 13 30 29 26 30 . Rainfall	2.8 3.0 3.3 2.0 3.5 s. THORST 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	35 36 35 34 37 39 35 35 35 35 35 August 5.07	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 2 C.W. 3 C.W. 3 C.W. 3 C.W. inches.	G. G.
Yield differen	nces not si	Exeter. Rodney Clintland. Fundy gnificant. Rai  Exeter. Rodney Clintland. Fundy yields not included.	25.6 23.4 22.0 7.5 20.0 nfall—Ma ENNETH 20.6 22.8 19.7 12.6 23.2 uded in zo	98 98 98 106 98 y to August W. FOLBA 105 103 103 103 98 101 ne summary	38 34 35 27 36 6.12 inches AR, WIND 31 30 29 26 30 Rainfall	2.8 3.0 3.3 2.0 3.5 s. THORST 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	35 36 35 34 37 39 35 35 35 35 35 35 35 35 35 35 35 35 36 36 36 36 36 36 36 36 36 36 36 36 36	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 2 C.W. 3 C.W. 3 C.W. 3 C.W. inches.	G. G. G.
Yield differen	7 4	Exeter Rodney Clintland Fundy gnificant. Rai  Exeter Rodney Clintland Fundy yields not inch	25.6 23.4 22.0 7.5 20.0 nfall—Ma ENNETH 20.6 22.8 19.7 12.6 23.2 uded in zo ONALD 43.1 30.4	98 98 98 106 98 y to August W. FOLBA 105 103 103 103 98 101 ne summary	38 34 35 27 36 6.12 inches R, WIND 31 30 29 26 30 . Rainfall RS, BROA 25 25	2.8 3.0 3.3 2.0 3.5 S. THORST 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	35 36 35 34 37 39 35 35 35 35 August 5.07	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 2 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W.	G. G. H. G. H.
Yield differen	7 4	Exeter. Rodney Clintland. Fundy gnificant. Rair  Exeter Rodney Clintland Fundyyields not include Exeter Rodney Clintland Fundyyields not include	25.6 23.4 22.0 7.5 20.0 nfall—Ma ENNETH 20.6 22.8 19.7 12.6 23.2 uded in 20 PONALD 43.1 30.4 41.4	98 98 98 106 98 y to August W. FOLBA 105 103 103 103 98 101 ne summary	38 34 35 27 36 6.12 inches <b>IR, WIND</b> 31 30 29 26 30 Rainfall <b>RS, BROA</b> 25 25 27	2.8 3.0 3.3 2.0 3.5 s. THORST 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	35 36 35 34 37 39 35 35 35 35 35 34 August 5.07	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 2 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W.	
Yield differen	7 4	Exeter. Rodney. Garry. Clintland. Fxundy. gnificant. Rai  Exeter. Rodney. Garry. Clintland. Fundy. yields not inch  Exeter. Rodney. Garry. Clintland. Clintland. Clintland. Clintland. Clintland.	25.6 23.4 22.0 7.5 20.0 nfall—Ma ENNETH 20.6 22.8 19.7 12.6 23.2 uded in 20 OONALD 43.1 30.4 41.4 31.0	98 98 98 106 98 y to August W. FOLBA 105 103 103 103 98 101 ne summary	38 34 35 27 36 6.12 inches 4R, WIND 31 30 29 26 30 Rainfall RS, BROA 25 27 23	2 . 8 3 . 0 3 . 3 2 . 0 3 . 5 8. THORST 1 . 0 1	35 36 35 34 37 39 35 35 35 35 August 5.07	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 3 C.W. 3 C.W. 3 C.W. inches. 3 C.W. 3 C.W. 3 C.W. 2 C.W. 3 C.W. 3 C.W. 3 C.W.	G.
Yield differen	7 4 d by hail-	Exeter. Rodney Clintland. Fundy gnificant. Rair  Exeter Rodney Clintland Fundyyields not include Exeter Rodney Clintland Fundyyields not include	25.6 23.4 22.0 7.5 20.0 nfall—Ma 2NNETH 20.6 22.8 19.7 12.6 23.2 uded in 20 0NALD 43.1 30.4 41.4 31.0 40.7	98 98 98 98 106 98 y to August  W. FOLBA 105 103 103 103 101 ne summary S. FATHE	38 34 35 27 36 6.12 inches 130 29 26 30 7. Rainfall RS, BROA 25 25 27 23 25	2.8 3.0 3.3 2.5 3.5  THORST 1.0 1.0 1.0 1.0 -May to  DVIEW 1.0 1.3 1.0 1.3	35 36 35 34 37 39 35 35 35 35 35 34 August 5.07	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 2 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W.	
Yield differen	7 4 d by hail-	Exeter Rodney Clintland Fundy gnificant. Rai  Exeter Rodney Garry. Clintland Fundy yields not inch  Exeter Rodney Garry Clintland Fundy Garry Clintland Fundy Garry Clintland Fundy Garry Clintland Fundy gnificant. Rai	25.6 23.4 22.0 7.5 20.0 nfall—Ma 2NNETH 20.6 22.8 23.2 uded in 20 23.2 uded in 20 20 43.1 30.4 41.4 31.0 40.7 nfall—Ma	98 98 98 98 106 98 y to August  W. FOLBA 105 103 103 98 101 ne summary  S. FATHE	38 34 35 27 36 6.12 inches 4.18 WIND 30 29 26 30 7. Rainfall RS, BROA 25 27 23 24 4,19 inches	2 . 8 3 . 0 3 . 3 2 . 0 3 . 5 5. THORST 1 . 0 1	35 36 35 34 37 39 35 35 35 35 August 5.07	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 3 C.W. 3 C.W. 3 C.W. inches. 3 C.W. 3 C.W. 3 C.W. 2 C.W. 3 C.W. 3 C.W. 3 C.W.	G.G.
Yield differen	7 4 d by hail— 7 7	Exeter. Rodney. Garry. Clintland. Fundy gnificant. Rai  Exeter. Rodney. Garry. Clintland. Fundy -yields not included in the control of the co	25.6 23.4 22.0 75.5 20.0 nfall—Ma 20.6 22.8 19.7 12.6 23.2 uded in 20 00NALD 43.1 30.4 41.4 31.0 40.7 nfall—Ma	98 98 98 106 98 98 to August  W. FOLBA 105 103 98 101 ne summary  S. FATHE  y to August	38 34 35 27 36 6.12 inches AR, WIND 31 30 29 26 30 Rainfall RS, BROA 25 27 23 24,19 inches	2 . 8 3 . 0 3 . 3 2 . 0 3 . 5 5. THORST 1 . 0 1	35 36 35 34 37 39 35 35 35 35 August 5.07 35 38 36 36 34	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 2 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W. 1 C.W. 1 C.W. 1 C.W. 1 Fd.	G
Yield differen	7 4 d by hail-	Exeter. Rodney. Garry. Clintland. Fundy. gnificant. Rai  Exeter. Rodney. Garry. Clintland. Fundy. yields not inch Exeter. Rodney. Garry. Clintland. Fundy. gnificant. Rai  Exeter. Rodney. Garry. Clintland. Fundy. gnificant. Rai	25.6 23.4 22.0 7.5 20.0 nfall—Ma 20.6 22.8 19.7 12.6 23.2 uded in zo ONALD 43.1 30.4 41.4 31.0 40.7 nfall—Ma K. EARL 25.3	98 98 98 106 98 y to August  W. FOLBA 105 103 103 98 101 ne summary S. FATHE	38 34 35 27 36 6.12 inches 4R, WIND 31 30 29 26 30 Rainfall RS, BROA 25 27 23 4.19 inches	2 . 8 3 . 0 3 . 3 2 . 0 3 . 5 5. THORST 1 . 0 1	35 36 35 34 37 39 35 35 35 35 35 August 5.07	1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W. 1 C.W. 1 Fd.	
Yield differen	7 4 d by hail— 7 7	Exeter	25.6 23.4 22.0 7.5 20.0 nfall—Ma 20.6 22.8 19.7 12.6 23.2 uded in 2 00NALD 43.1 30.4 41.4 31.0 40.7 nfall—Ma	98 98 98 98 106 98 98 y to August  W. FOLBA 105 103 103 108 98 summary S. FATHEI  y to August  KINGDON 80 78	38 34 35 27 36 6.12 inches AR, WIND 31 30 29 26 30 7. Rainfall RS, BROA 25 27 23 24, 19 inches	2 . 8 . 3 . 0 . 3 . 3 . 5	35 36 35 34 37 39 35 35 35 35 August 5.07 35 38 36 36 34	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 2 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W. 1 C.W. 1 Fd. 1 Fd. 3 C.W.	G
Yield differen	7 4 d by hail— 7 7	Exeter Rodney Clintland Fundy gnificant. Rai  Exeter Rodney Clintland Fundy yields not inch  Exeter Rodney Garry Clintland Fundy grificant. Rai  Exeter Rodney Clintland Fundy Fundy Fundy Fundy gnificant. Rai	25.6 23.4 22.0 75.5 20.0 nfall—Ma 20.6 22.8 19.7 12.6 23.2 uded in zo ONALD 43.1 30.4 41.4 31.0 40.7 nfall—Ma ENNETH 22.8 19.7 12.6 23.2 uded in zo ONALD 43.1 30.4 41.4 25.3 15.0 17.0	98 98 98 106 98 98 105 105 103 103 98 101 ne summary S. FATHE  — — — y to August	38 34 35 27 36 6.12 inches AR, WIND 31 30 29 26 30 Rainfall RS, BROA 25 25 27 23 4.19 inches	2 . 8 . 3 . 0 . 3 . 3 . 5	35 36 35 34 37 39 35 35 35 35 August 5.07 35 38 36 34 34	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 2 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 3	G.
Yield differen	7 4 d by hail— 7 7	Exeter	25.6 23.4 22.0 7.5 20.0 nfall—Ma 20.6 22.8 19.7 12.6 23.2 uded in 2 00NALD 43.1 30.4 41.4 31.0 40.7 nfall—Ma	98 98 98 98 106 98 98 y to August  W. FOLBA 105 103 103 108 98 summary S. FATHEI  y to August  KINGDON 80 78	38 34 35 27 36 6.12 inches AR, WIND 31 30 29 26 30 7. Rainfall RS, BROA 25 27 23 24, 19 inches	2 . 8 . 3 . 0 . 3 . 3 . 5	35 36 35 34 37 39 35 35 35 35 August 5.07 35 38 36 36 34	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 2 C.W. 3 C.W. 3 C.W. 3 C.W. 3 C.W. 1 C.W. 1 Fd. 1 Fd. 3 C.W.	G

# Wheat Pool District 7-Continued

			V	и пеат г	OOI DISTI	ice 1—Co	mimueu			
Cereal Variety Zone	Dist.	Sub- Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading
7					RRAY PAS			- m m - 2		
3C	7	10	Exeter	48.3	91 89	31	2.3	35 38	3 C.W.	
			Rodney	38.5	89	30 32	3.0	36	1 C.W.	
			Clintland	28.3	87	28	2.3	36	2 C.W. 2 C.W.	_
Necessary di	fferen	ce_	Fundy	40.9	May to Aug	33 ust 5 62 in	3.0	34	1 Fd.	G.
recessary un	ricicii	icc	1.54 busiles.						-	7 5
3C	7	11	Exeter	- CODINE	Y J. DUCZ	27	2.3	40	Ex. 1 Fd.	G.
			Rodney	-	79	27	1.0	38	Ex. 1 Fd.	G.
			Garry Clintland	-	80 79	28 26	1.5	36 38	1 Fd. Ex. 1 Fd.	G. G.
			Fundy	_	79	29	2.0	36	1 Fd.	Ğ.
Test damage	d by	birds	—yields not rel	iable. R	ainfall—May	to Augus	t 2.49 inch	es.		
					T POOL					
3C	8	3	Exeter	37.4	NG J. SOOS	s, MELVI 24	2.8	38	Ex. 1 Fd.	G.
30	0	,	Rodney	30.9	94	23	1.0	39	Ex. 1 Fd.	G.
			Garry	34.6	94	26	1.8	38	Ex. 1 Fd.	G.
			Clintland Fundy	22.1 34.3	94 94	23 26	2.3	37 37	2 Fd. 1 Fd.	G. G.
Necessary di	fferer	ice-	7.81 bushels.					31		0.
					EL BERG,		SIDE			
3C	8	4		84.9	93	38	3.3	34	3 C.W.	G.
			Rodney	81.3 83.2	90	39	1.3	37 35	3 C.W.	G.
			Garry Clintland	66.9	90	34	1.8	35	3 C.W. 2 C.W. 3 C.W. 2 C.W. 3 C.W.	G.
Necessary di	fferer	100-	Fundy 5.07 bushels.	82.2	May to Aug	39 net 4 02 in	ches	34	3 C.W.	-
recessary di	rierei	ice-	J.07 Dusileis.		NE M. ZAR				3030	
3B	8	6	Exeter	36.7	94	22 Z	4.3	36	1 Fd.	W.
			Rodney	46.9	93	23	2.3	38	Ex. 1 Fd.	W.
			Garry	48.9 33.0	94 86	26 22	3.0 2.8	37 36	1 Fd. 1 Fd.	W. W.
			Fundy	39.2	90	26	7.3	35	1 Fd.	W.
Yield differe	nces 1	not si	gnificant. Rai	nfall—M	ay to August	5.41 inche	es.		2271722	
		_		LARR	Y A. SACE	NEY, SH	EHO	20	D . DI	***
3C	8	7	ExeterRodney	57.8 65.2	_		_	38 39	Ex. 1 Fd.	W.
			Garry	57.7				37	Ex. 1 Fd. 3 C.W. 3 C.W.	G.
			Clintland	43.8		_	-	39	3 C.W.	G.
Necessary di	fferer	ice-	Fundy 10.89 bushels.	61.0 Rainfall-	-May to Au	gust 4.92 i	nches.	35	1 Fd.	W.
3B	Q	8	Exeter	97.1	r w. G. wi	30 EEKS, HA	2.0	36	1 Fd.	w.
JD	0	O	Rodney	93.6	92	29	1.0	38	Ex. 1 Fd.	w.
			Garry	87.2	92	30	1.0	36	1 Fd.	W.
			Clintland Fundy	68.1 85.9	89 89	27 32	1.0	37 35	1 Fd. 1 Fd.	W.
Necessary di	fferer	ice-	6.25 bushels.					33	110.	,,,
				CATTITA	C TOTTNE	TON MOY	OVIAN			
3B	8	9	Exeter	132.4	G. JOHNS 108	35 NOF	2.8	38	Ex. 1 Fd.	W.
			Rodney	126.4	108	36	1.0	40	Ex. 1 Fd.	W.
			Garry	122.7 81.8	108 85	37 37	1.0	38 38	Ex. 1 Fd.	W. W.
			Clintland Fundy		102	41	1.0	36	Ex. 1 Fd. Ex. 1 Fd.	W.
Necessary di	ffere	nce-	11.13 bushels.	Rainfall-	-May to Au	gust 5.89 i	nches.			
				AT.R	ERT PRYS	LAK PEI	LLV			
3B	8	10	Exeter	62.9	101	32		34	3 C.W.	
			Rodney	69.3	104	33	_	37	2 C.W.	- 5
			Garry Clintland	60.1 53.3	99 90	33 33	_	35 37	3 C.W. 2 C.W.	
			Fundy	64.2	90	34		34	3 C.W.	_
		nce-	7.10 bushels.	Rainfall—						
_					nage by flor	ding nos	ts. hail. d	rought or	other causes	3.
_	sts d		ded on account Kenneth G. W	at <b>of dar</b> Varriner, l	Kamsack.	Juing, per	,,	23.311111		
Te	sts d	iscar	Kenneth G. W	arriner, l	T POOL					
3B	sts d	iscar 5	Kenneth G. W	WHEA EORGE	Kamsack.	DISTR	ICT 9	22	2.51	
Te	sts d	iscar	Kenneth G. W	WHEA EORGE	T POOL	DISTR	ICT 9	32	2 Fd.	_
3B	sts d	iscar 5	ExeterRodneyGarry	WHEA EORGE 44.5 35.0 39.1	T POOL	DISTR	ICT 9	37 36	2 Fd. 2 C.W. 2 C.W.	Ξ
3B	sts d	iscar 5	Exeter	WHEA EEORGE 44.5 35.0 39.1 23.8	T POOL	DISTR	ICT 9	37 36 35	2 C.W. 2 C.W. 3 C.W.	=
3B3C	sts d 8	iscar 5	Exeter	WHEA EORGE 44.5 35.0 39.1 23.8 37.9	T POOL	DISTR	ICT 9	37 36	2 Fd. 2 C.W. 2 C.W. 3 C.W. 2 Fd.	

# Wheat Pool District 9-Continued

Variety Zone	Sub- Dist.Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw	Lbs. per measured bushel	Com- mercial grades	Grading
		NAME OF TAXABLE PARTY.	DAVID	C. HAMII	LTON, LE	ROY			
3D	9 8	Exeter	74.8 69.5	98	34	2.3	36	2 C.W.	-11
		Rodney		98 97	33 34	1.0	38	2 C.W.	G.
		Garry Clintland	66.6 36.1	96	31	1.0	37 33	2 C.W. 2 Fd.	_
		Fundy	51.3	96	35	1.8	33	2 Fd.	
Necessary d	lifference—	6.59 bushels.	Rainfall—	May to Aug	ust 4.10 in	ches.	11.75		11-10-1
3C	. 9 9	Exeter	<b>BARRY</b> 55.3	G. MILLI	ER, TUFF	1.0	38	3 C.W.	G.
	., ., .,	Rodney		92	33	1.0	39	3 C.W.	G.
		Garry	54.0	92	34	1.0	37	3 C.W.	G.
	100 0 4	Clintland Fundy	33.6 54.3	92 88	32 34	1.0	39 37	3 C.W. 3 C.W.	G. G.
Necessary o	lifference—	6.78 bushels.					31	3 C.W.	G.
		National Control	MARV	IN D. HOB	ERG, EL	FROS	1.0		
3C	9 10	Exeter	46.5	87	23	7776	35	3 C.W.	
		Rodney Garry	42.7 46.0	86 85	24 23	_	38 36	1 C.W.	_
		Clintland	37.0	81	25		38	1 C.W. 2 C.W. 1 C.W.	
Magaaaaaaa	liffaran aa	Fundy	46.4	81	25		35	3 C.W.	
necessary c	ili rerence—	4.56 bushels.	Kaintaii—	May to Aug	ust 3.97 in	cnes.			
12	321	V	HEAT	POOL	DISTR	CT 12	a material.	16%	
		н	ELEN M	. FULLER	TON, BAI	JENNIE			
3G	12 2	Exeter	62.7	102	25	3.8	37	1 Fd.	G.
		Rodney	54.0 56.7	102 104	26 25	2.5	39 38	Ex. 1 Fd. Ex. 1 Fd.	G.
		Clintland	39.5	103	21	2.0	38	Ex. 1 Fd.	G.
Vield differ	ences not si	Fundy gnificant. Rai	62.4	99	24 8 24 inche	3.0	36	1 Fd.	G.
Tield differ	ences not si								
3E	12 8	Exeter	47.9	FAIRLEY 81	, BALDW	7.5	37	3 C.W.	G.
JE	12 0	Rodney	45.2	86	30	8.0	39	2 C.W.	G.
		Garry	45.3	80	32	8.0	37	2 C.W.	-
		Clintland	23.5 43.4	75 86	28 31	8.0	39 37	2 C.W. 2 C.W.	G.
NY	lifforonco	Fundy	Dainfall				31	2 C. W.	
Necessary	III lefelice	5.73 bushels.	Kainian—	way to Aug	ust J.17 III	orico.			
	interence			POOL					
Necessary	interence		/HEAT	POOL	DISTR	CT 13	Lad William		
		V	/HEAT		DISTRI	CT 13	34	1 Fd.	G.
		ExeterRodney	JOHN 52.1 51.9	POOL	DISTRI	RAIL 2.8 2.0	34 37	1 Fd. 1 Fd.	G. G.
3D		ExeterRodneyGarry	JOHN 52.1 51.9 54.6	POOL	DISTRI 5, BAY TI 28 26 29	RAIL 2.8 2.0 2.3	37 36	1 Fd. 1 Fd.	G. G.
		ExeterRodneyGarryClintland	JOHN 52.1 51.9 54.6 10.1	POOL	DISTRI 5, BAY TI 28 26 29 23	RAIL 2.8 2.0 2.3 8.0	37 36 36	1 Fd. 1 Fd. 1 Fd.	G.
3D	13 1	ExeterRodneyGarry	JOHN 52.1 51.9 54.6 10.1 41.7	POOL  M. EARIS	DISTRI 28 26 29 23 28	RAIL  2.8 2.0 2.3 8.0 3.0	37 36 36 33	1 Fd. 1 Fd. 1 Fd. 2 Fd.	G. G.
3D	13 1	ExeterRodney. Garry. Clintland Fundyyields not inc	JOHN 52.1 51.9 54.6 10.1 41.7 cluded in :	POOL  M. EARIS  Zone summa	DISTRI 28 26 29 23 28 ry. Rainfa	RAIL  2.8 2.0 2.3 8.0 3.0 all—May t	37 36 36 33 o August 5.2	1 Fd. 1 Fd. 1 Fd. 2 Fd. 9 inches.	G. G.
3D	13 1	Exeter	JOHN 52.1 51.9 54.6 10.1 41.7 cluded in a	POOL M. EARIS	DISTRI  5, BAY TI 28 26 29 23 28 ry. Rainfa R, ST. G	2.8 2.0 2.3 8.0 3.0 all—May t	37 36 36 33 o August 5.2	1 Fd. 1 Fd. 1 Fd. 2 Fd. 9 inches.	G. G. G.
3D	13 1	Exeter	JOHN 52.1 51.9 54.6 10.1 41.7 cluded in a 81.9 74.6	POOL M. EARIS Cone summa: NIENABE 88 84	DISTRI 28 26 29 23 28 ry. Rainfa R, ST. G: 34 35	RAIL 2.8 2.0 2.3 8.0 3.0 all—May t REGOR 2.0 2.0	37 36 36 33 o August 5.2	1 Fd. 1 Fd. 1 Fd. 2 Fd. 9 inches.	G. G. G. W. W.
3D	13 1	Exeter	JOHN 52.1 51.9 54.6 10.1 41.7 cluded in :  ALFRED 81.9 74.6 76.0	POOL  M. EARIS  zone summa: NIENABE 88 84 84 84	DISTRI 5, BAY TI 28 26 29 23 28 ry. Rainfa R, ST. Gi 34 35 34	2.8 2.0 2.3 8.0 3.0 all—May t REGOR 2.0 2.0	37 36 36 33 o August 5.2	1 Fd. 1 Fd. 1 Fd. 2 Fd. 9 inches. 1 Fd. Ex. 1 Fd. Ex. 1 Fd.	G. G. W. W.
3D	13 1 ged by wind 13 11	Exeter	JOHN 52.1 51.9 54.6 10.1 41.7 cluded in :  ALFRED 81.9 74.6 76.0 64.3 74.1	POOL  M. EARIS  zone summa: NIENABE 88 84 84 81 81	DISTRI  3, BAY TI 28 26 29 23 28 ry. Rainfa R, ST. GI 34 35 36	2.8 2.0 2.3 8.0 3.0 all—May t REGOR 2.0 2.0 2.0 2.0	37 36 36 33 o August 5.2	1 Fd. 1 Fd. 1 Fd. 2 Fd. 9 inches.	G. G. G. W. W.
3D	13 1 ged by wind 13 11	Exeter	JOHN 52.1 51.9 54.6 10.1 41.7 cluded in :  ALFRED 81.9 74.6 76.0 64.3 74.1	POOL  M. EARIS  zone summa: NIENABE 88 84 84 81 81	DISTRI  3, BAY TI 28 26 29 23 28 ry. Rainfa R, ST. GI 34 35 36	2.8 2.0 2.3 8.0 3.0 all—May t REGOR 2.0 2.0 2.0 2.0	37 36 36 33 36 33 o August 5.2 37 39 38 39	1 Fd. 1 Fd. 1 Fd. 2 Fd. 9 inches. 1 Fd. Ex. 1 Fd. Ex. 1 Fd.	G. G. W. W. W.
3D	13 1 ged by wind 13 11	Exeter	JOHN 52.1 51.9 54.6 10.1 41.7 21.0 41.7 41.7 41.7 41.7 41.7 41.7 41.7 41.7	POOL  M. EARIS  zone summa: NIENABE 88 84 84 81 81	DISTRI  3, BAY TI 28 26 29 23 28 ry. Rainfa 34 35 35 36 (ust 3.93 in	RAIL 2.8 2.0 2.3 8.0 3.0 all—May teres 2.0 2.0 2.0 2.0 2.0 ches.	37 36 36 33 36 33 o August 5.2 37 39 38 39	1 Fd. 1 Fd. 1 Fd. 2 Fd. 9 inches. 1 Fd. Ex. 1 Fd. Ex. 1 Fd.	G. G. W. W. W.
3D3D3D3D	13 1 ged by wind 13 11	Exeter	JOHN 52.1 51.9 54.6 60.1 41.7 cluded in 2 ALFRED 81.9 74.6 76.0 64.3 74.1 Rainfall—	POOL  M. EARIS  zone summa: NIENABE 88 84 81 81 May to Aug	DISTRI  3, BAY TI 28 26 29 23 28 ry. Rainfe  R, ST. Gi 34 35 34 35 36 aust 3.93 in	2.8 2.0 2.3 8.0 3.0 all—May t  REGOR 2.0 2.0 2.0 2.0 ches.	37 36 36 33 33 30 August 5.2: 37 39 38 39 37	1 Fd. 1 Fd. 1 Fd. 2 Fd. 9 inches. 1 Fd. Ex. 1 Fd. Ex. 1 Fd. 1 Fd.	W. W. W. G.
3D3D3D3D3D	13 1 ged by wind 13 11	Exeter	/HEAT  JOHN 52.1 51.9 54.6 10.1 41.7 cluded in a ALFRED 74.6 76.0 64.3 74.1 Rainfall—  /HEAT	POOL  M. EARIS  Cone summa:  NIENABE 88 84 84 81 81 May to Aug	DISTRI 5, BAY TI 28 26 29 23 28 ry. Rainfe R, ST. GI 34 35 34 35 36 rust 3.93 in  DISTRI	2.8 2.0 2.3 8.0 3.0 all—May t  REGOR 2.0 2.0 2.0 2.0 ches.	37 36 36 33 o August 5.2 37 39 38 39 37	1 Fd. 1 Fd. 1 Fd. 2 Fd. 9 inches. 1 Fd. Ex. 1 Fd. Ex. 1 Fd. 1 Fd.	W. W. W. G.
3D3D3D3D3D	13 1 ged by wind 13 11	Exeter	/HEAT  JOHN 52.1 51.9 54.6 10.1 41.7 cluded in a ALFRED 81.9 74.6 76.0 64.3 74.1 Rainfall  /HEAT  ERI 47.5 34.7 36.1	POOL  M. EARIS  Cone summa:  NIENABE 88 84 84 81 81 May to Aug	DISTRI  5, BAY TI 28 26 29 23 28 ry. Rainfa R, ST. Gi 34 35 36 36 36 37 DISTRI  (S, NAICA 24 21 22	2.8 2.0 2.3 8.0 3.0 all—May t  REGOR 2.0 2.0 2.0 2.0 ches.	37 36 36 33 o August 5.2 37 39 38 39 37	1 Fd. 1 Fd. 1 Fd. 2 Fd. 9 inches. 1 Fd. Ex. 1 Fd. Ex. 1 Fd. 1 Fd.	G. G. W. W. W. G.
3D	13 1 ged by wind 13 11	Exeter	JOHN 52.1 51.9 54.6 10.1 41.7 cluded in 2 ALFRED 81.9 74.6 76.0 64.3 74.1 Rainfall—  ERI 47.5 34.7 36.1 11.5	POOL  M. EARIS  Cone summa:  NIENABE 88 84 84 81 81 May to Aug	DISTRI  5, BAY TI 28 26 29 23 28 ry. Rainfa  6, ST. Gi 34 35 34 35 36 31 35 36 31 31 31 31 32 35 36 31 31 31 32 31 32 33 33 34 34 34 35 36 31 31 32 31 31 32 31 31 31 31 31 31 31 31 31 31 31 31 31	2.8 2.0 2.3 8.0 3.0 all—May t  REGOR 2.0 2.0 2.0 2.0 ches.	37 36 36 33 33 30 August 5.2 37 39 38 39 37 39 39 39 39 39	1 Fd. 1 Fd. 1 Fd. 2 Fd. 9 inches. 1 Fd. Ex. 1 Fd. Ex. 1 Fd. Ex. 1 Fd. 1 Fd. Ex. 1 Fd. 1 Fd.	G. G. W. W. G. G. G. G. G. G.
3D	13 1 ged by wind 13 11 difference 14 3	Exeter	/HEAT  JOHN 52.1 51.9 54.6 10.1 41.7 41.7 41.7 41.7 41.7 41.7 41.7 41	POOL  M. EARIS  Cone summa  NIENABE  88 84 81 81 May to Aug  POOL  CC B. DAVI	DISTRI  28 26 29 23 28 28 29 23 28 28 28 29 23 28 28 28 28 36 36 36 35 36 36 36 37 38 38 39 31 31 31 32 36 36 36 37 38 38 39 39 31 31 31 31 31 32 31 32 32 33 36 36 37 38 38 38 38 38 38 38 38 38 38 38 38 38	2.8 2.0 2.3 8.0 3.0 all—May t  REGOR 2.0 2.0 2.0 2.0 ches.	37 36 36 33 o August 5.2 37 39 38 39 37	1 Fd. 1 Fd. 1 Fd. 2 Fd. 9 inches. 1 Fd. Ex. 1 Fd. Ex. 1 Fd. 1 Fd. Ex. 1 Fd. 1 Fd.	G. G. W. W. W. G. G. G. G. G.
3D	13 1 ged by wind 13 11 difference 14 3	Exeter	JOHN 52.1 51.9 54.6 10.1 41.7 cluded in 2 ALFRED 81.9 74.6 0 64.3 74.1 Rainfall—  FRI 47.5 34.7 36.1 11.5 35.5 Rainfall re	POOL  M. EARIS	DISTRI  5, BAY TI 28 26 29 23 28 ry. Rainfa  R, ST. Gi 34 35 34 35 34 35 36 sust 3.93 in  DISTRI  (S, NAICA 24 21 22 16 22 plete.	RAIL 2.8 2.0 2.3 8.0 3.0 all—May te REGOR 2.0 2.0 2.0 2.0 ches.	37 36 36 33 33 30 August 5.2 37 39 38 39 37 39 39 39 39 39	1 Fd. 1 Fd. 1 Fd. 2 Fd. 9 inches. 1 Fd. Ex. 1 Fd. Ex. 1 Fd. 1 Fd. Ex. 1 Fd. 1 Fd. 1 Fd. 1 Fd.	G. G. W. W. W. G. G. G. G. G.
3D  Test damag 3D  Necessary of	13 1 ged by wind 13 11 difference 14 3	Exeter	/HEAT  JOHN 52.1 51.9 54.6 10.1 41.7 cluded in :: ALFRED 81.9 74.6 76.0 64.3 74.1 Rainfall  FERI 47.5 34.7 36.1 11.5 35.5 Rainfall re YNELL	POOL  M. EARIS  Cone summa:  NIENABE 88 84 81 81 81 May to Aug  POOL  C B. DAVI  C B. DA	DISTRI  5, BAY TI 28 26 29 23 28 ry. Rainfa  R, ST. Gi 34 35 34 35 34 35 36 sust 3.93 in  DISTRI  (S, NAICA 24 21 22 16 22 plete.	RAIL 2.8 2.0 2.3 8.0 3.0 all—May t REGOR 2.0 2.0 2.0 2.0 ches.	37 36 36 33 33 30 August 5.2 37 39 38 39 37 39 39 39 39 39	1 Fd. 1 Fd. 1 Fd. 2 Fd. 9 inches. 1 Fd. Ex. 1 Fd. Ex. 1 Fd. 1 Fd. Ex. 1 Fd. 1 Fd. 1 Fd.	G. G
3D	13 1 ged by wind 13 11 difference 14 3	Exeter	/HEAT  JOHN 52.1 51.9 54.6 10.1 41.7 cluded in a 81.9 74.6 76.0 64.3 74.1 Rainfall  /HEAT  ERI 47.5 34.7 36.1 11.5 33.7 Rainfall of the company of the compa	POOL  M. EARIS	DISTRI  5, BAY TI 28 26 29 23 28 ry. Rainfa  7, ST. Gi 34 35 36 36 36 37 38 38 393 inc  DISTRI  (S, NAICA 24 21 21 16 22 22 16 22 22 16 43 41	2.8 2.0 2.3 8.0 3.0 all—May t  REGOR 2.0 2.0 2.0 2.0 ches.	37 36 36 33 33 30 August 5.2 37 39 38 39 37 37 35 35 35	1 Fd. 1 Fd. 1 Fd. 2 Fd. 9 inches. 1 Fd. Ex. 1 Fd. Ex. 1 Fd. 1 Fd. Ex. 1 Fd. 1 Fd. 1 Fd.	G. G. W. W. W. G.
3D	13 1 ged by wind 13 11 difference 14 3	Exeter	JOHN 52.1 51.9 54.6 10.1 41.7 cluded in : ALFRED 81.9 74.6 76.0 64.3 74.1 Rainfall—  VHEAT  EIL 47.5 35.5 RRinfall at  ZYNELL 114.6 113.3 115.3	POOL  M. EARIS  Cone summa:  NIENABE 88 84 84 81 81 May to Aug  POOL  C B. DAVI  C C B. DAVI	DISTRI  5, BAY TI 28 26 29 23 28 ry. Rainfa  R, ST. Gi 34 35 36 36 31 31 31 32 35 36 31 31 31 31 32 31 31 32 31 32 32 33 36 31 31 31 32 32 32 33 36 31 31 31 31 31 31 31 31 31 31 31 31 31	RAIL 2.8 2.0 2.3 8.0 3.0 all—May t REGOR 2.0 2.0 2.0 2.0 ches.	37 36 36 33 33 30 August 5.2: 37 39 38 39 37 37 39 39 37 35 35 35	1 Fd. 1 Fd. 1 Fd. 2 Fd. 9 inches. 1 Fd. Ex. 1 Fd. Ex. 1 Fd. 1 Fd. Ex. 1 Fd. 1 Fd. 1 Fd.	G. G
3D  Test damag 3D  Necessary of	13 1 ged by wind 13 11 difference 14 3	Exeter	/HEAT  JOHN 52.1 51.9 54.6 10.1 41.7 cluded in a 81.9 74.6 76.0 64.3 74.1 Rainfall  /HEAT  ERI 47.5 34.7 36.1 11.5 33.7 Rainfall of the company of the compa	POOL  M. EARIS	DISTRI  5, BAY TI 28 26 29 23 28 ry. Rainfa  7, ST. Gi 34 35 36 36 36 37 38 38 393 inc  DISTRI  (S, NAICA 24 21 21 16 22 22 16 22 22 16 43 41	2.8 2.0 2.3 8.0 3.0 all—May t  REGOR 2.0 2.0 2.0 2.0 ches.	37 36 36 33 33 30 August 5.2 37 39 38 39 37 37 35 35 35	1 Fd. 1 Fd. 1 Fd. 2 Fd. 9 inches. 1 Fd. Ex. 1 Fd. Ex. 1 Fd. Ex. 1 Fd. 1 Fd. Ex. 1 Fd. 1 Fd.	G. G

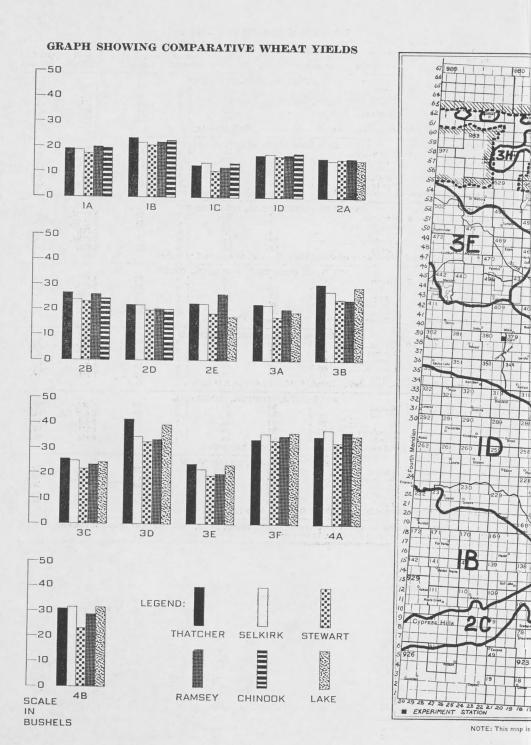
# Wheat Pool District 14—Continued

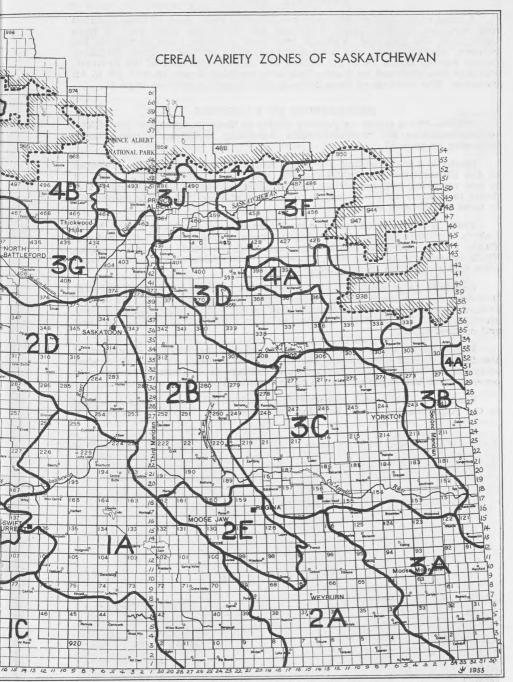
Cereal Variety Zone	Sub- Dist.Dist	. Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches		Lbs. per measured bushel	Com- mercial grades	Grading
		MIL	TON R.	TURNQUIS		RIE RIVE	R		
3F	14 6	Exeter	93.0	100	34	_	39	3 C.W.	G.
		Rodney Garry	87.2 92.0	92 92	34 35	_	40 38	3 C.W.	G. G. G. G.
		Clintland	54.0	83	32	-	38	3 C.W. 3 C.W.	Ğ.
Necessary di	fference-	Fundy	76.3 Rainfall-	87 -May to Aug	35 zust 6.44 ir	nches.	36	3 C.W.	G.
				HUDON, 2					
3F	14 10	Exeter	106.8		-	_	38	2 C.W.	G. G. G.
		Rodney	92.3 83.3	-	_	-	41 39	2 C.W.	G.
		Garry Clintland	55.3			_	38	2 C.W.	G.
NT 111	· · · · · · · · · · · · · · · · · · ·	Fundy	90.7	N			37	2 C.W. 2 C.W. 2 C.W. 2 C.W. 2 C.W.	
Necessary di	Terence-	-23.18 bushels.	Raintali-	-May to Aug	gust 5.34 ir	icnes.			
		W	HEAT	POOL I	DISTRI	CT 15			
			JAMI	ES COCHRA	N. FENT	ON	100		
3J	15 1	Exeter	44.4	92	33	3.8	39	1 C.W.	-
		Rodney	39.3	94 94	32 34	1.5	41	2 C.W.	G.
		Clintland	31.0	88	28	1.3	37	1 C.W. 2 C.W.	_
Nacassary di	forence	Fundy	41.6	May to Aug	33 set 3.35 inc	3.3	38	2 C.W.	G.
	rerence	5.01 Dusticis. 1							
3D	15 2	Exeter	104.1	RD BOUTI	N, DOMR 42	5.0	38	Ex. 1 Fd.	W.
-		Rodney	98.3	93	42	2.0	39	Ex. 1 Fd.	W.
		Garry Clintland	87.4	93 93	42 30	2.0 5.0	37	1 Fd.	W.
		Fundy	65.1 91.4	93	36	5.0	38 37	Ex. 1 Fd. 1 Fd.	W.
Necessary di	ference-	-5.16 bushels.							
20"		-	L. G	RANT PETI		RD	2.		
3G	15 4	Exeter Rodney		_	29	7.0	34 32	1 Fd. 2 Fd.	
		Garry		-	30	8.3	32	2 Fd.	_
		Clintland Fundy	-	_	26 30	8.3	34	1 Fd.	
Test damage	d by hail-	—yields not relia	ble. Rai	nfall—May t			32	2 Fd.	
				. CHRISTE	NSEN, C	ANWOOD			
4B	15 6	Exeter	125.9 122.7	84 79	36 30	5.0	36 39	3 C.W.	G.
		Rodney Garry	107.8		30	4.0 3.0	39	Ex. 1 Fd. 3 C.W.	W. G.
		Clintland	67.3	80	24	9.0	37	1 Fd.	WG.
Necessary dif	ference—	Fundy 13.02 bushels.	97.2 Rainfall—	77 -May to Aug	36 ust 5.72 in	7.0 ches.	36	1 Fd.	W.
	100		1 1	GER CYR,			1 / major		
3J	15 7	Exeter	78.4	99	34	1.5		Ex. 1 Fd.	W.
		Rodney Garry	78.9 70.1	98 100	34	1.0	39 38	Ex. 1 Fd. Ex. 1 Fd.	W.
		Clintland	44.5	95	30	1.0	35	1 Fd.	W.
NT		Fundy 8.67 bushels. F	64.3	101	36	1.5	35	1 Fd.	W.
Necessary dif	terence—	8.67 bushels.	Kainfall—	May to Augu	st 5.95 inc	hes.	7.53		
4A	15 11	Exeter	120.7	D J. LARSO 101	ON, GARI 48	1.0	36	1 Fd.	W.
70	15 11	Rodney	95.3	102	50	2.3	35	1 Fd.	W.
		Garry	102.2	101	48	1.3	36	1 Fd.	W.
		Clintland Fundy	69.4	100	46 50	1.8	35 34	1 Fd. 1 Fd.	W.
Necessary dif	ference—	8.78 bushels. R	Rainfall—	May to Augu	st 6.49 inc	hes.	34	I I'u.	٧٧.
Tes	ts discar	<b>ded on accoun</b> William D. Kn	t of dam ight, Dav	age by flood	ling, pest	s, hail, dr	ought or ot	her causes.	
		w	HEAT	POOL D	ISTRI	CT 16			
	100		ROBERT	T. MILLE	R, FIELI	DING			
3G	16 1	Exeter	58.7	92	30	2.3	35	1 Fd.	G.
		Rodney	51.1 52.1	92 92	30 30	1.3	34 33	1 Fd. 2 Fd.	G.
		Garry				1.5			_
		Clintland	44.7	102	22	1.5	36	1 Fd.	G,
J		Fundy	44.7 57.3	92 May to Augus	29	1.3	32	2 Fd.	G,

# Wheat Pool District 16-Continued

3 nce—	Exeter	61.4 57.3 54.8 44.3 56.5 Rainfall—	seeding to ripening  ER W. JES	28 28 28 25 27 ust 6.83 inc EK, WHIT	1.0 1.0 1.0 2.0 2.0 ches.	36 36 36 35 34	mercial grades  1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd.	G. G. G. G. G. G. G.
3 nce—	Rodney Garry Clintland Fundy 5.42 bushels. F  Exeter Rodney Garry Clintland Fundy	61.4 57.3 54.8 44.3 56.5 Rainfall— EDWAR 78.7 79.7 71.6	May to Aug  TOMAN  96	28 28 28 25 27 ust 6.83 inc EK, WHIT	1.0 1.0 1.0 2.0 2.0 2.0	36 36 35	1 Fd. 1 Fd. 1 Fd.	G. G.
3 nce—	Rodney Garry Clintland Fundy 5.42 bushels. F  Exeter Rodney Garry Clintland Fundy	61.4 57.3 54.8 44.3 56.5 Rainfall— EDWAR 78.7 79.7 71.6	May to Aug  TOMAN  96	28 28 28 25 27 ust 6.83 inc EK, WHIT	1.0 1.0 1.0 2.0 2.0 2.0	36 36 35	1 Fd. 1 Fd. 1 Fd.	G. G.
3 nce—	Rodney Garry Clintland Fundy 5.42 bushels. F  Exeter Rodney Garry Clintland Fundy	57.3 54.8 44.3 56.5 Rainfall— <b>EDWAR</b> 78.7 79.7 71.6	D TOMAN	28 28 25 27 ust 6.83 inc <b>EK, WHI</b>	1.0 1.0 2.0 2.0 2.0 ches.	36 36 35	1 Fd. 1 Fd. 1 Fd.	G. G.
3 nce—	Garry	54.8 44.3 56.5 Rainfall— <b>EDWAR</b> 78.7 79.7 71.6	D TOMAN	25 27 ust 6.83 inc EK, WHIT	2.0 2.0 ches.	35	1 Fd. 1 Fd.	G. G.
3 nce—	Clintland	44.3 56.5 Rainfall— EDWAR 78.7 79.7 71.6	D TOMAN	25 27 ust 6.83 inc EK, WHIT	2.0 2.0 ches.	35	1 Fd.	G.
3 nce—	Exeter	56.5 Rainfall— EDWAR 78.7 79.7 71.6	D TOMAN	27 ust 6.83 inc EK, WHIT	2.0 ches.			
3 nce—	Exeter	EDWAR 78.7 79.7 71.6	D TOMAN	ust 6.83 inc EK, WHIT 36	ches.			0.
ice—	Rodney Garry Clintland Fundy	78.7 79.7 71.6	96	36				
ice—	Rodney Garry Clintland Fundy	78.7 79.7 71.6	96	36				
	Clintland Fundy	71.6	96		4.0	40	2 C.W.	G.
	Clintland Fundy			35	2.3	41	1 C.W.	
	Clintland Fundy	37.4	96	36	2.8	40	2 C.W.	G.
			97	29	1.3	33	2 Fd.	
	12.56 bushels	65.8	96	34	4.3	38	3 C.W.	G.
	. Z. JO Dusticis.	Rainfall-	-May to Au	gust 5.36 in	iches.			
		S H. BE	AVINGTON	, HILLM		- [1]	100	
6	Exeter	-	87	20	2.0	34	3 C.W.	
	Rodney	-						-
	Garry							
		-						-
		-					2 Fd.	
birds	—yields not rel	iable. Ra	ainfall—May	y to August	5.11 inche	s.		7 1000
	JO	ER.C.		, PARADI	SE HILL			
7	Exeter							-
	Rodney							G.
	Garry	41.9	89	26	1.0	35	3 C.W.	
	Clintland	32.8	80	28	1.3	35	3 C.W.	_
	Fundy	45.0	80	27	1.8	31	2 Fd.	_
not si	gnificant. Rai	nfall—Ma	y to August	4.73 inches	3.			
	The state of the state of							
9	Exeter	57.5	108					W.
	Rodney							W.
	Garry				2.3			W.
	Clinton				1.0		1 Fd.	W.
	Fundy	51.5	100	33	5.3	36	1 Fd.	W.
nce-	14.48 bushels.	Rainfall-	-May to Au	gust 5.55 in	iches.			
		RICHAR	D J. HUTT	ER, GOO	DSOIL		1	32-3
11	Exeter				2.0			W.
	Rodney	66.2		46	1.0	39	Ex. 1 Fd.	G.
	Garry	79.3	95	46	1.5	37	1 Fd.	W.
	Clintland	57.4	91	39	1.0	35	1 Fd.	W.
	Fundy	64.6	92	49	1.5	36	1 Fd.	W.
not si			y to August	6.88 inches				
1		ERIC V	V. GREEN.	RAPID	VIEW		42	
11	Exeter		86	18		37	1 Fd.	W.
	Rodney		89	19				W.
								w.
		_						
		_			_			W.
hirde	-vields not rel	iable R			7 06 inche		1 1 4.	
	7  9  noce— 11  not si	Rodney	Rodney	Rodney	Rodney	Rodney	Rodney	Rodney

Tests discarded on account of damage by flooding, pests, hail, drought or other causes. 48....... 16 10 Marcel Doucette, Laventure.





not fully up to date in the numbers and boundaries of municipalities and local improvement districts owing to changes that are being made.

# BARLEY TESTS

A total of 116 barley tests were conducted in 1958. Each of these included five varieties. Husky, Traill, Parkland and Montcalm were used in tests throughout the province. Vantage was used in those tests located in the western, south-western and west-central portion of the province including Cereal Variety Zones 1A to 2D, except 2A. In the remainder of the province, Vantage was replaced by York. This area included Zones 2A and 2E to 4B inclusive. The location of these zones is shown on the map on page 45.

#### DESCRIPTION OF VARIETIES

NOTE—For a report on yielding ability of these varieties and the official recommendations see "Summarization According to Cereal Variety Zones" beginning on page 54.

Husky is a high yielding, six-rowed, smooth-awned feed variety developed at the University of Saskatchewan and licensed for distribution in 1953. It is late maturing and has strong, medium-long straw. Husky has some tendency to shatter. It is resistant to most races of stem rust, but is susceptible to loose and covered smut.

Traill is a six-rowed, rough-awned feed variety developed at the North Dakota Agricultural Experiment Station from a cross between Kindred and Titan. It has mid-long, mid-strong straw and the heads are semi-nodding. Traill is resistant to stem rust, moderately susceptible to loose and covered smut and susceptible to speckled leaf blotch.

Parkland is a malting variety developed at the Experimental Farm, Brandon, from a cross involving the varieties Montcalm, Olli, Newal and Peatland. It is a six-rowed, smooth-awned variety with medium-long, mediumstrong straw. Parkland is resistant to stem rust, but susceptible to loose and covered smut.

Montcalm is a six-rowed, smooth-awned malting variety developed at Macdonald College and licensed for distribution in 1945. It has tall, moderately strong straw and is fairly late maturing. It has some resistance to covered smut but is susceptible to loose smut and to stem and leaf rust.

Vantage is a six-rowed, smooth-awned, medium-late feed variety developed at the Experimental Farm, Brandon from the cross (Newal X Peatland) X



Ken Mujygla of Waldron is shown standing beside his barley test early in the season.

Plush. Vantage has strong straw. It is resistant to stem rust, but susceptible to loose and covered smut, leaf rust and leaf blotch.

York is a six-rowed, smooth-awned feed variety developed at the Ontario Agricultural College, Guelph and licensed for commercial distribution in 1958. It has fairly short, strong straw and is medium early in maturity. It is resistant to stem rust but susceptible to loose smut.

Table No. 41—Average Yields in Bushels Per Acre Summarized by Cereal Variety Zones

Cereal** Variety Zone	No. of Satis- factory Tests	Husky	Traill	Parkland	Montcalm	Vantage	York	Necessary Difference* in bushels
1A	12	32.1	30.9	29.5	32.1	38.2	_	1.82
1B	6	44.8	42.7	40.1	43.7	55.5		2.88
1C	6	21.4	24.1	25.0	23.5	27.6	-	N.S.
1D	7	40.2	41.0	34.5	42.0	47.4	_	2.39
2A	3	24.1	26.7	24.5	27.6	_	21.1	3.19
2B	6	45.6	43.5	42.5	47.6	48.2	_	N.S.
2D	9	38.2	35.2	33.1	37.1	41.0		N.S.
3A	3	30.6	31.4	32.4	31.4		31.0	N.S.
3B	4	71.1	68.8	63.1	66.9		69.5	4.26
3C	5	53.6	49.1	45.0	53.6	_	50.4	3.90
3D	3	68.3	60.2	56.4	60.7	_	59.3	4.61
3E	3	44.4	38.2	35.0	41.2		41.9	3.78
3G	3	45.0	39.7	32.1	36.5	_	33.2	3.02
3J	3	97.0	81.5	78.3	84.5		73.5	8.51
4A	3	66.6	66.5	61.7	69.6		69.2	N.S.

\*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular zone group. N.S.—Yield differences not significant.

\*\*See zone map, page 48.

Table No. 41. Zones 1A to 2D, except 2A. Vantage outyielded the other four varieties in all six of these zones in 1958. Montcalm and Husky placed second and third respectively on an average basis. In most of the zones there were only small differences in yield between the two. Traill placed fourth on an average basis. It placed third in two of the zones and fourth in the remaining four zones. Parkland placed second in one zone, and fifth in the remaining five zones.

Zones 2A and 2E to 4B. Husky yielded well in this area, placing first in five of the zones. It tied for first place in one zone. In the three remaining zones it was outyielded by several other varieties. Montcalm placed second on an average basis, with considerable variation in placing from one zone to another. Traill and York placed third and fourth respectively and Parkland was outyielded by the other varieties in six of the nine zones.

Table No. 42—Average Number of Days From Seeding to Ripening Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Traill	Parkland	Montcalm	Vantage	York
1A	94.9	94.7	93.7	94.1	95.1	
1B	86.0	84.7	85.7	84.7	84.0	-
1C	97.3	96.8	95.5	95.8	95.0	_
1D	89.8	90.2	89.3	89.5	90.3	-
2A	84.0	86.0	85.0	83.0		85.0
2B	97.7	95.8	96.3	96.0	96.7	
2D	96.2	96.0	96.8	96.2	96.2	
2E	92.3	91.0	91.7	93.3	_	85.0
3A	90.0	89.5	89.0	89.5	_	88.3
3B	87.0	87.5	86.5	87.5		87.0
BC.	92.8	90.7	92.2	92.8		86.5
BD.	93.8	91.5	91.3	91.8	-	90.0
BE	103.0	102.0	101.0	105.0	_	97.0
3J	100.0	100.0	98.0	97.5	_	93.5
1A	93.0	93.5	94.0	94.5	_	90.0

Table No. 42. Zones 1A to 2D (except 2A). In this area the differences in time of ripening were so slight as to be of no economic significance.

Zones 2A and 2E to 4B. York matured somewhat earlier than the other varieties. In most zones it was from one to four days earlier than the remaining four varieties. The minor differences among the remaining four varieties were not sufficient to be of any economic significance.

Table No. 43—Average Height of Plants in Inches Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Traill	Parkland	Montcalm	Vantage	York
1A	22.3	22.5	24.5	24.5	23.4	- Li
1B	25.5	26.3	29.0	30.5	26.8	77.7
IC.	16.2	17.2	19.0	19.6	18.4	100
D	24.6	25.0	27.0	28.6	25.9	-
2A	18.7	19.3	20.0	21.7	23.7	19.3
2B	27.8	27.3	29.7	29.0	26.5	17.5
2D	26.3	24.8	27.0	27.8	26.8	
E	28.7	28.7	29.7	31.0	20.0	27.3
A.	25.5	23.5	25.8	28.0		21.8
B	36.0	34.5	38.5	35.0		33.0
C	30.0	30.0	31.4	33.1	_	30.1
D	32.3	32.7	34.0	35.0		31.3
E	22.0	24.0	24.0	26.0		25.0
3G	25.0	24.0	30.0	30.0	and the same	25.0
1	26.0	25.0	29.0	34.0		20.0
1A	36.5	37.5	40.5	41.0	-	35.5

Table No. 43. Zones 1A to 2D (except 2A). Montcalm exceeded the other varieties in height on an average basis in this area. It was followed by Parkland, Vantage, Traill and Husky in that order. This placing was maintained quite consistently throughout the different zones.

Zones 2A and 2E to 4B. In parts of this area barley straw tends to grow tall and rank and may lodge. For this reason shorter straw is often an advantage. As in the southern part of the province, Montcalm exceeded the other varieties in height on an average basis. Parkland was second tallest on an average basis, followed by Husky. Traill and York placed fourth and fifth respectively on an average basis.

Table No. 44—Average Straw Strength of Plants On the Basis 1 (Strong) to 9 (Weak) Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Traill	Parkland	Montcalm	Vantage	York
1A	2.7	2.8	2.8	3.0	2.6	
1B	1.7	2.0	2.0	1.8	1.6	-
1C	3.1	2.9	3.0	3.0	2.6	-
1D	1.6	1.8	1.8	1.7	1.6	-
2 A	2.3	1.0	1.2	1.5		1.3
2B	3.2	3.1	3.2	3.4	2.9	
2D	2.6	2.6	2.6	2.5	2.5	
2E	1.5	1.4	1.7	2.0		2.4
3A	2.3	2.8	1.8	3.1		2.6
3B	1.9	2.8	1.6	3.3		2.8
3C	1.6	1.8	1.6	1.9		2.4
3D	1.4	1.3	1.4	1.3	_	1 4
BE	1.5	1.0	2.0	2.3	_	4.0
3G	1.0	1.0	1.0	1.0	_	1.0
31	2.5	2.0	2.8	3.0		3.0
4 A	2.4	2.0	2.7	2.8		1.7

Table No. 44. Zones 1A to 2D (except 2A). No serious weakness of straw was evident in any of these zones. On an average basis, Vantage showed the greatest strength followed by Husky, and Traill in that order. Parkland and Montcalm showed equal straw strength on an average basis.

Zones 2A and 2E to 4B. Traill showed the greatest straw strength on an average basis in this area, followed by Parkland and Husky in that order. Montcalm placed fourth and York, placed fifth on an average basis.

### Table No. 45—Average Neck Strength of Plants On the Basis 1 (Strong) to 3 (Weak) Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Traill	Parkland	Montcalm	Vantage	York
1A	2.0	2.3	2.2	2.2	1.7	
1B	1.8	2.3	2.6	2.1	1.6	-
1C	2.0	2.1	2.3	2.1	1.4	-
1D	1.9	2.2	2.3	2.2	1.5	-
2A	1.3	1.7	1.4	1.4		1.8
2B	2.1	2.5	2.2	2.0	1.6	-
2D.,,	1.7	2.0	2.2	1.8	1.8	
2E	1.8	2.0	1.8	1.5		2.3
3A	1.9	2.3	1.9	1.9		2.5
3B	1.8	1.8	1.4	2.1	_	1.5
3 <u>C</u>	1.6	1.7	1.8	1.5	_	1.8
3D	1.1	1.7	1.5	1.2		2.3
3E	1.0	1.3	1.3	1.5	1 2007 2007	3.0
3G	1.0	1.0	2.0	3.0		1.0
31	1.3	1.3	2.0	2.0		1.7
4A	1.6	1.3	1.3	1.2		3.0

Table No. 45. Zones 1A to 2D (except 2A). In this area, Vantage showed the greatest neck strength of the five varieties tested. It placed first in five of the zones and tied for second place in the remaining zone. It was followed by Husky, Montcalm, Traill, and Parkland in that order.

Zones 2A and 2E to 4B. In this area, Husky showed the greatest neck strength on an average basis. Traill placed second and Parkland placed third on an average basis. Montcalm and York placed fourth and fifth respectively on an average basis although the placing of these two varieties varied somewhat from one zone to another.

Table No. 46—Average Weight Per Measured Bushel Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Traill	Parkland	Montcalm	Vantage	York
1A	46.4	48.3	48.2	47.8	46.2	_
1B	50.7	51.7	52.3	51.3	49.8	
IC	39.3	42.2	42.3	41.8	41.0	
ID	47.6	49.4	49.2	48.8	48.1	
2A	44.3	47.0	46.5	45.3		51.0
2B	44.0	45.9	47.6	46.1	44.6	
2D	46.0	47.7	48.0	47.3	46.7	-
E	46.7	50.0	48.3	48.3		52.3
3A	44.6	46.0	46.2	45.6	_	47.4
B	47.8	48.3	49.3	47.8		50.8
iC	45.9	46.5	48.1	47.3		51.1
5D	49.3	48.5	49.8	49.0		51.5
E	48.3	48.3	51.3	49.0		49.7
Ğ	48.0	49.3	51.0	49.0	_	52.0
J	50.0	48.7	51.3	49.7		52.3
IA	48.0	46.7	49 0	47.3	-	51.3

Table No. 46. Zones 1A to 2D (except 2A). Parkland outweighed the other four varieties in this area on an average basis. Traill and Montcalm placed second and third respectively on an average basis, with very little difference between them. Vantage placed fourth in four of these zones and fifth in two. Husky placed fourth in two zones and fifth in the remaining four.

Zones 2A and 2E to 4B. York showed high bushel weight in this area, placing first in nine of the ten zones. Parkland placed second on an average basis. Traill, Montcalm and Husky placed third, fourth and fifth respectively on an average basis.

Table No. 47—Percentage of Commercial Grades by Varieties (Zones 1A to 2D, except 2A)

Variety	1 C.W. 6R	2 C.W. 6R	3 C.W. 6R	1 Feed %	2 Feed %	3 Feed %
Husky		_		63.5	17.3	19.2
Traill	-			82.7	5.8	11.5
Parkland	26.9	23.1	15.4	13.5	11.5	9.6
Montcalm	27.0	17.3	19.2	7.7	17.3	11.5
Vantage	_	_	_	69.2	15.4	15.4

Variety	1 C.W. 6R	2 C.W. 6R	3 C.W. 6R	1 Feed %	2 Feed %	3 Feed %
Husky	1111	-	VX 10	65.0	25.0	10.0
Traill		and -		85.0	10.0	5.0
Parkland	. 22.5	45.0	15.0	2.5	10.0	5.0
Montcalm	. 15.0	35.0	32.5	2.5	7.5	7.5
York		_	(	95.0	5.0	-

Table No. 47. Zones 1A to 2D (except 2A). It is not possible to make a direct comparison of these varieties since Parkland and Montcalm are eligible for the C.W. grades with the other three varieties eligible only for the feed grades. The two malting varieties in this area graded almost equally well, with a very narrow margin in favor of Parkland. Of the three feed varieties, Traill graded highest with nearly 83% of the samples classed as 1 Feed. Vantage and Husky were quite close with 69% and 63% of the samples respectively, grading 1 Feed.

Zones 2A and 2E to 4B. In this area, of the two malting varieties, there was a greater difference in favor of Parkland, since 22% of the samples of this variety graded 1 C.W. 6R, as compared with 15% in the case of Montcalm. As would be expected from the previous table on bushel weight, York graded well, with 95% of the samples classed as 1 Feed. Traill and Husky graded somewhat lower with 85% and 65% respectively, placing in the top Feed grade.



Kenneth Kenaschuk is shown kneeling between the rows of his barley test at Watson.

### SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

Table No. 48—Summarized Results for Zone 1A (12 successful tests)

regardes to the constant of and building	Husky	Traill	Parkland	Montcalm	Vantage
Yield in bushels per acre*	32.1	30.9	29.5	32.1	38.2
Days from seeding to ripening	94.9	94.7	93.7	94.1	95.1
Height of plants in inches	22.3	22.5	24.5	24.5	23.4
Straw strength (basis 1-strong to 9-weak) Neck strength (basis 1-strong, 2-medium,	2.7	2.8	2.8	3.0	2.6
3-weak)	2.0	2.3	2.2	2.2	1.7
Bushel weight in pounds	46.4	48.3	48.2	47.8	46.2
Commercial grades in percentage: 1 C.W. 6 R		_	30.8	38.4	7101xx
2 C.W. 6 R	-	_	30.8	23.1	340000
3 C.W. 6 R	-	-	7.7	15.4	To Jacob
1 Feed	69.2	84.6		_	76.9
2 Feed	15.4	7.7	23.0	7.7	7.7
3 Feed	15.4	7.7	7.7	15.4	15.4

<sup>\*</sup>Necessary difference-1.82 bushels.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1A

Vantage outyielded the other varieties tested in this zone in 1958. It placed either first or second in each of the previous three years as well. It is well adapted to this area and is officially recommended for the zone.

Husky and Montcalm tied for second place in this zone in 1958. Husky has yielded well in Wheat Pool tests in this zone for several years. However, it has short straw and some tendency to shatter and is not officially recommended. Montcalm has not been tested by the Wheat Pool in this zone for a number of years. It is not officially recommended.

Traill and Parkland were outyielded by the other three varieties tested in 1958. Neither of these varieties produced outstanding results in previous tests by the Wheat Pool in this zone. Neither variety is officially recommended.

Table No. 49—Summarized Results for Zone 1B
(6 successful tests)

	Husky	Traill	Parkland	Montcalm	Vantage
Yield in bushels per acre*	44.8	42.7	40.1	43.7	55.5
Days from seeding to ripening	86.0	84.7	85.7	84.7	84.0
Height of plants in inches	25.5	26.3	29.0	30.5	26.8
Straw strength (basis 1-strong to 9-weak)	1.7	2.0	2.0	1.8	1.6
Neck strength (basis 1-strong, 2-medium,		-			
3-weak)	1.8	2.3	2.6	2.1	1.6
Bushel weight in pounds	50.7	51.7	52.3	51.3	49.8
Commercial grades in percentage: 1 C.W. 6 R			100.0	83.4	
2 C.W. 6 R			_	16.6	-
1 Feed	100.0	100.0	-	_	100.0

<sup>\*</sup>Necessary difference-2.88 bushels.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1B

Vantage outyielded the other four varieties tested in this zone in 1958. It placed first in two of the three previous years as well. Vantage is well adapted to this area and is officially recommended.

Husky placed second in this zone in 1958. It was substantially lower in yield than Vantage. Husky has some tendency to shatter and has rather short straw for this zone. It is not officially recommended.

Montcalm placed third in yield in this zone in 1958. It has not been tested in this zone by the Wheat Pool for a number of years. It is not particularly adapted to this area and is not officially recommended

Traill placed fourth in this zone in each of the past two years. It is not recommended.

Parkland was outyielded by the other four varieties tested in this zone in 1958. It placed third in 1955, fifth in 1956 and second in 1957. Parkland is not recommended for the zone.

In addition to Vantage, Compana is also officially recommended for this zone.

Table No. 50—Summarized Results for Zone 1C
(6 successful tests)

	Husky	Traill	Parkland	Montcalm	Vantage
Yield in bushels per acre*	21.4	24.1	25.0	23.5	27.6
Days from seeding to ripening	97.3	96.8	95.5	95.8	95.0
Height of plants in inches	16.2	17.2	19.0	19.6	18.4
Straw strength (basis 1-strong to 9-weak) Neck strength (basis 1-strong, 2-medium,	3.1	2.9	3.0	3.0	2.6
3-weak)	2.0	2.1	2.3	2.1	1.4
Bushel weight in pounds	39.3	42.2	42.3	41.8	41.0
Commercial grades in percentage: 3 C.W. 6 R		-	16.7	16.7	
1 Feed		33.3	_		16.7
2 Feed	16.6	66.7	50.0	50.0	16.7
3 Feed	83.4	-	33.3	33.3	66.6

<sup>\*</sup>Yield differences not significant.

#### YIELD PERFORMANCE DURING RECENT YEARS-ZONE 1C

Vantage outyielded the other varieties tested in this zone in each of the past four years. It has performed consistently well in other tests in this zone as well and is officially recommended.

Parkland placed second in this zone in 1958. It placed fifth in each of the two previous years and tied for second place in 1955. It is not officially recommended.

Traill placed third in 1958 and fourth in 1957. It does not appear particularly adapted to this area. It is not recommended.

Montcalm placed fourth in this zone in 1958. It has not been previously tested in this zone by the Wheat Pool. In other tests in this area it has not yielded well and it is not recommended.

Husky was outyielded by the other four varieties tested in this zone in 1958. It yielded reasonably well in several previous years but due to some tendency to shatter, and also to its short straw, it is not officially recommended for this zone.

In addition to Vantage, Compana is also officially recommended for this zone.

Table No. 51—Summarized Results for Zone 1D
(7 successful tests)

	Husky	Traill	Parkland	Montcalm	Vantage
Yield in bushels per acre*	40.2	41.0	34.5	42.0	47.4
Days from seeding to ripening	89.8	90.2	89.3	89.5	90.3
Height of plants in inches	24.6	25.0	27.0	28.6	25.9
Straw strength (basis 1-strong to 9-weak) Neck strength (basis 1-strong, 2-medium,	1.6	1.8	1.8	1.7	1.6
3-weak)	1.9	2.2	2.3	2.2	1.5
Bushel weight in pounds	47.6	49.4	49.2	48.8	48.1
Commercial grades in percentage: 1 C.W. 6 R		_	33.4	33.4	-
2 C.W. 6 R		-	22.2	22.2	11
1 Feed	88.9	88.9	22.2	22.2	77.8
2 Feed	11.1	11.1	22.2	22.2	22.2

<sup>\*</sup>Necessary difference-2.39 bushels.

### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1D

Vantage outyielded the other four varieties tested in this zone in 1958. It placed first in 1955, third in 1956 and second in 1957. Vantage is officially recommended for the zone.



Etta Moen took a keen interest in her barley test in spite of the lack of moisture during the summer.

Montcalm placed second in this zone in 1958, but was substantially lower in yield than Vantage. It has not produced outstanding results in other tests in this zone and is not recommended.

Traill ranked third in yield in this zone in 1958. During the previous year it placed fourth. It is not recommended for the zone.

Husky placed fourth in this zone in 1956 and 1958. However, it was the highest yielding variety in 1957 and placed second in 1955. It has yielded well in other tests in the zone and is officially recommended.

Parkland was the lowest yielding variety in this zone during each of the last three years. It is not officially recommended for this zone.

Table No. 52—Summarized Results for Zone 2A

	Husky	Traill	Parkland	Montcalm	York
Yield in bushels per acre*	24.1	26.7	24.5	27.6	21.1
Days from seeding to ripening	84.0	86.0	85.0	83.0	85.0
Height in plants in inches	18.7	19.3	20.0	21.7	19.3
Straw strength (basis 1-strong to 9-weak) Neck strength (basis 1-strong, 2-medium.	2.3	1.0	1.2	1.5	1.3
3-weak)	1.3	1.7	1.4	1.4	1.8
Bushel weight in pounds	44.3	47.0	46.5	45.3	51.0
Commercial grades in percentage: 2 C.W. 6 R	N 2 3 19 V		75.0	100000000000000000000000000000000000000	-
3 C.W. 6 R			1 - 7 to	75.0	5 11-
1 Feed	50.0	75.0	"	_	100.0
2 Feed	25.0	25.0	_		
3 Feed	25.0		25.0	25.0	-

<sup>\*</sup>Necessary difference-3.19 bushels.

#### YIELD PERFORMANCE DURING RECENT YEARS-ZONE 2A

Montcalm placed first in yield in this zone in 1958. However, during the previous year it placed fifth and in 1956 it placed second. It has not produced outstanding results in other tests in this zone and is not officially recommended.

Traill placed second in this zone in each of the last two years. It appears to have some promise in this area, but requires further testing.

Parkland placed third in this zone in 1958. In Wheat Pool tests during the previous three years it has given variable yield results. In other tests it has not yielded particularly well and it is not officially recommended.

Husky placed fourth in yield in this zone in 1958. It placed second in 1955 and first in 1956 and 1957. It has yielded well in other tests in the zone and is officially recommended.

York was outyielded by the other four varieties in its first year of testing by the Wheat Pool.

In addition to Husky, Vantage and Vantmore are officially recommended for this zone.

Table No. 53—Summarized Results for Zone 2B
(6 successful tests)

	Husky	Traill	Parkland	Montcalm	Vantage
Yield in bushels per acre*	45.6	43.5	42.5	47.6	48.2
Days from seeding to ripening	97.7	95.8	96.3	96.0	96.7
Height of plants in inches	27.8	27.3	29.7	29.0	26.5
Straw strength (basis 1-strong to 9-weak) Neck strength (basis 1-strong, 2-medium,	3.2	3.1	3.2	3.4	2.9
3-weak)	2.1	2.5	2.2	2.0	1.6
Bushel weight in pounds	44.0	45.9	47.6	46.1	44.6
Commercial grades in percentage: 1 C.W. 6 R		_	12.5	12.5	_
2 C.W. 6 R			25.0	-	
3 C.W. 6 R	-	DE	25.0	37.5	" _C 1
1 Feed	62.5	87.5	12.5	12.5	50.0
2 Feed	12.5		_	12.5	25.0
3 Feed	25.0	12.5	25.0	25.0	25.0

<sup>\*</sup>Yield differences not significant.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2B

Vantage outyielded the other four varieties tested in this zone in 1958. It placed second in each of the two previous years and third in 1955. It is well adapted to the area and is officially recommended.

Montcalm placed second in this zone in 1958. However, although it outyielded Parkland this year, it is susceptible to rust and has weaker straw than Parkland. For these reasons it is not recommended for this zone.

Husky ranked third in yield in this zone in 1958. However, it placed first in yield in each of the three previous years. It has performed well in other tests in this zone as well and is officially recommended.

Traill placed fourth in 1958 and third in 1957 in this zone. It does not appear particularly adapted to this zone but should be tested further to obtain an accurate indication of its potential.

Parkland ranked fifth in this zone in 1958. It placed somewhat better during three previous years testing by the Wheat Pool. Because it has greater rust resistance and greater straw strength than Montcalm, it is officially recommended for this zone.

### Cereal Variety Zone 2C

No successful barley tests were conducted in this zone in 1958. Vantage is the only variety officially recommended for the zone.

Table No. 54—Summarized Results for Zone 2D
(9 successful tests)

	Husky	Traill	Parkland	Montcalm	Vantage
Yield in bushels per acre*	38.2	35.2	33.1	37.1	41.0
Days from seeding to ripening	96.2	96.0	96.8	96.2	96.2
Height of plants in inches	26.3	24.8	27.0	27.8	26.8
Straw strength (basis 1-strong to 9-weak)	2.6	2.6	2.6	2.5	2.5
Neck strength (basis 1-strong, 2-medium,					
3-weak)	1.7	2.0	2.2	1.8	1.8
Bushel weight in pounds	46.0	47.7	48.0	47.3	46.7
Commercial grades in percentage: 2 C.W. 6 R		100	40.0	30.0	· =
3 C.W. 6 R	-	-	40.0	40.0	4
1 Feed	50.0	90.0	10.0	10.0	80.0
2 Feed	40.0	10.0	10.0	20.0	20.0
3 Feed	10.0	-	_		

<sup>\*</sup>Yield differences not significant.

### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2D

Vantage outyielded the other four varieties tested in this zone in 1958. It placed second in each of the two previous years and third in 1955. Vantage is well adapted to the area and is officially recommended.

Husky ranked second in this zone in 1958. It placed second in 1955 and first in both 1956 and 1957. It is officially recommended for the zone.

Montcalm ranked third in this zone in 1958. It has not been tested previously in this area by the Wheat Pool but in other tests it has been out-yielded by Parkland. It is not officially recommended.

Traill placed fourth in this zone in both 1957 and 1958. It is not recommended for the zone.

Parkland placed fifth in yield in this zone in 1958. It produced rather erratic results during several years in which it was tested by the Wheat Pool, placing first in one year, third in one year and fifth in another. However, in other tests it has yielded well and it is officially recommended.

In addition to the recommended varieties mentioned above, Hannchen is also officially recommended for this zone.

### Cereal Variety Zone 2E

Only one successful barley test was located in this zone in 1958. It was conducted by Ronald Sanderson of Avonlea and can be found in the section

"Individual Summarized Results of all Tests—Barley" on page 69. Vantage and Vantmore are officially recommended for this zone.

Table No. 55—Summarized Results for Zone 3A

then to be street at the	Husky		Traill	Parkland	Montcalm	York
Yield in bushels per acre*	30.6		31.4	32.4	31.4	31.0
Days from seeding to ripening	90.0		89.5	89.0	89.5	88.3
Height of plants in inches	25.5		23.5	25.8	28.0	21.8
Straw strength (basis 1-strong to 9-weak)	2.3		2.8	1.8	3.1	2.6
Neck strength (basis 1-strong, 2-medium,						
3-weak)	1.9		2.3	1.9	1.9	2.5
Bushel weight in pounds	44.6	- 23	46.0	46.2	45.6	47.4
Commercial grades in percentage: 2 C.W. 6 R	P. 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		D. A.O.	20.0	20.0	A 100 TO 100
3 C.W. 6 R	-	10	1,500	40.0	40.0	distriction.
1 Feed	20.0		60.0			80.0
2 Feed	60.0		20.0	40.0	20.0	20.0
3 Feed	20.0		20.0	T. A. 170 G	20.0	1.4

<sup>\*</sup>Yield differences not significant.

### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3A

The yield differences among the varieties tested in this zone in 1958 were only slight and in no case were these differences significant. The varieties officially recommended for this zone are Husky, Parkland, Vantage and Vantmore.



Richard Pikula is shown standing between the rows of his barley test,

Table No. 56—Summarized Results for Zone 3B

	Husky	Traill	Parkland	Montcalm	York
Yield in bushels per acre*	71.1	68.8	63.1	66.9	69.5
Days from seeding to ripening	. 87.0	87.5	86.5	87.5	87.0
Height of plants in inches	36.0	34.5	38.5	35.0	33.0
Straw strength (basis 1-strong to 9-weak)	1.9	2.8	1.6	3.3	2.8
Neck strength (basis 1-strong, 2-medium,					
3-weak)	1.8	1.8	1.4	2.1	1.5
Bushel weight in pounds	47.8	48.3	49.3	47.8	50.8
Commercial grades in percentage: 1 C.W. 6 R	_	-	75.0	50.0	_
2 C.W. 6 R	_	_	-	25.0	-
1 Feed	75.0	75.0	_		100.0
2 Feed	25.0	25.0	25.0	25.0	11-1 NO 27

<sup>\*</sup>Necessary difference-4.26 bushels.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3B

Husky outyielded the other varieties tested in this zone in 1958. It also placed first in each of the two previous years and placed second in 1955. It is well adapted to the area and is officially recommended.

York placed second in this zone in its first year of testing by the Wheat Pool. It appears to have some adaptation in this area but requires further testing before an accurate recommendation can be made.

Traill placed third in this zone in 1958. It placed second in 1957. It appears to have some adaptation to this area but has not yet been tested sufficiently for an accurate recommendation to be made.

Montcalm ranked fourth in this zone in 1958. It placed third in 1956 and fifth in 1957, It is not recommended for this zone.

Parkland ranked fifth in yield in this zone in 1958. However it performed better in previous years, placing first in 1955, second in 1956 and third in 1957. Because it has greater rust resistance and greater straw strength than Montcalm it is officially recommended.

In addition to the recommended varieties mentioned above, Vantage and Vantmore are also officially recommended.

Table No. 57—Summarized Results for Zone 3C (5 successful tests)

	Husky	Traill	Parkland	Montcalm	York
Yield in bushels per acre*	53.6	49.1	45.0	53.6	50.4
Days from seeding to ripening	92.8	90.7	92.2	92.8	86.5
Height of plants in inches	30.0	30.0	31.4	33.1	30.1
Straw strength (basis 1-strong to 9-weak) Neck strength (basis 1-strong, 2-medium,	1.6	1.8	1.6	1.9	2.4
3-weak)	1.6	1.7	1.8	1.5	1.8
Bushel weight in pounds	45.9	46.5	48.1	47.3	51.1
Commercial grades in percentage: 1 C.W. 6 R	_		25.0	25.0	
2 C.W. 6 R	_		25.0	_	
3 C.W. 6 R		-	25.0	50.0	-
1 Feed	50.0	87.5	12.5	12.5	100.0
2 Feed	37.5		_		
3 Feed	12.5	12.5	12.5	12.5	-

<sup>\*</sup>Necessary difference-3.90 bushels.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3C

Husky and Montcalm tied for first place in this zone in 1958. Husky has yielded well in this zone for a number of years, placing first in 1957 and second in both 1955 and 1956. It is officially recommended for the zone. Montcalm placed first in 1956 and fourth in 1957. Because it is more rust susceptible than Parkland and has weaker straw, it is not recommended for this zone.

York yielded quite well in this zone in its first year of testing by the Wheat Pool. It appears to have some adaptation in this part of the province but requires further testing.

Traill has yielded quite well in this zone during two years of testing by the Wheat Pool. It appears to have some adaptation in this area of the province but requires further testing before an accurate recommendation can be made.

Parkland was outyielded by the other four varieties tested in this zone in 1958. Its performance during three previous years testing was quite variable. It has greater rust resistance and straw strength than Montcalm and so is recommended for this zone.

In addition to the recommended varieties mentioned above, Vantage is also officially recommended for this zone.

Table No. 58—Summarized Results for Zone 3D
(3 successful tests)

	Husky	Traill	Parkland	Montcalm	York
Yield in bushels per acre*	68.3	60.2	56.4	60.7	59.3
Days from seeding to ripening	93.8	91.5	91.3	91.8	90.0
Height of plants in inches	32.3	32.7	34.0	35.0	31.3
Straw strength (basis 1-strong to 9-weak) Neck strength (basis 1-strong, 2-medium,	1.4	1.3	1.4	1.3	1.4
3-weak)	1.1	1.7	1.5	1.2	2.3
Bushel weight in pounds	49.3	48.5	49.8	49.0	51.5
Commercial grades in percentage: 2 C.W. 6 R	_	_	100.0	100.0	
1 Feed	100.0	100.0	_	_	100.0

<sup>\*</sup>Necessary difference-4.61 bushels.

### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3D

Husky outyielded the other four varieties tested in this zone in 1958. It yielded well in the previous three years also, placing first in one year, second in one and third in one. Husky is officially recommended for the zone.

Montcalm placed second in this zone in 1958. It placed second in 1956 and fourth in 1957. It has weaker straw and less rust resistance than Parkland so it is not recommended for this zone.

Traill placed third in this zone in 1958 and second in 1957. It appears to have some adaptation to this area but has not been tested sufficiently for an accurate recommendation to be made.

York placed fourth in this zone in its first year of testing by the Wheat Pool.

Parkland was outyielded by the other four varieties tested in this zone in 1958. However, it yielded better in several previous years, placing first in 1955 and 1956 and third in 1957. It is officially recommended for this zone.

In addition to the recommended varieties mentioned above, Hannchen is also officially recommended.

Table No. 59—Summarized Results for Zone 3E
(3 successful tests)

	Husky	Traill	Parkland	Montcalm	York
Yield in bushels per acre*	44.4	38.2	35.0	41.2	41.9
Days from seeding to ripening	103.0	102.0	101.0	105.0	97.0
Height of plants in inches	22.0	24.0	24.0	26.0	25.0
Straw strength (basis 1-strong to 9-weak	1.5	1.0	2.0	2.3	4.0
3-weak)	1.0	1.3	1.3	1.5	3.0
Bushel weight in pounds	48.3	48.3	51.3	49.0	49.7
Commercial grades in percentage: 1 C.W. 6 R			33.3		-
2 C.W. 6 R	-	15	66.7	66.7	-
3 C.W. 6 R			_	33.3	
1 Feed	100.0	100.0	_		66.7
2 Feed		_	-	-	33.3

<sup>\*</sup>Necessary difference—3.78 bushels.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3E

Husky outyielded the other four varieties tested in this zone in 1958. It placed first in 1955 and 1957 and second in 1956. Husky is well adapted to this area and is officially recommended.

York ranked second in this zone in its first year of testing by the Wheat Pool. It has not been tested sufficiently for an accurate recommendation to be made.

Montcalm placed third in this zone in 1958. It placed first in 1956 and fifth in 1957. This variety has yielded well in other tests in this zone and it is officially recommended.

Traill ranked fourth in yield in this zone in 1958 and third in the previous year. It does not appear particularly adapted to the area and is not recommended.

Parkland placed fifth in yield in this zone in 1958. However, in several previous years' tests it yielded well, placing second in 1957 and third in 1955 and 1956. It has yielded well in other tests in this zone and is officially recommended.

### Cereal Variety Zone 3F

Only one successful test was located in this zone in 1958. It was conducted by Robert Jackson of Sylvania and can be found in the section "Individual Summarized Results of all Tests—Barley" on page 74. The recommended varieties for this zone are Hannchen, Husky, Montcalm and Parkland.

Table No. 60—Summarized Results for Zone 3G
(3 successful tests)

	Husky	Traill	Parkland	Montcalm	York
Yield in bushels per acre*	45.0	39.7	32.1	36.5	33.2
Days from seeding to ripening	_	-	_		
Height of plants in inches	25.0	24.0	30.0	30.0	25.0
Straw strength (basis 1-strong to 9-weak) Neck strength (basis 1-strong, 2-medium,	1.0	1.0	1.0	1.0	1.0
3-weak)	1.0	1.0	2.0	3.0	1.0
Bushel weight in pounds	48.0	49.3	51.0	49.0	52.0
Commercial grades in percentage: 1 C.W. 6 R			33.3	33.3	1 22
2 C.W. 6 R	_		33.3	33.3	-
3 C.W. 6 R		_	33.4		
1 Feed	66.7	66.7	_	-	100.0
2 Feed		33.3	_	33.4	_
3 Feed	33.3	_	_		-

<sup>\*</sup>Necessary difference-3.02 bushels.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3G

Husky substantially outyielded the other four varieties tested in this zone in 1958. It placed either first or second in each of the previous three years as well. Husky is well adapted to this area and it is officially recommended.

Traill placed second in this zone in 1958. It placed third in the previous year. This variety appears to be adapted to this zone but further testing is required before a recommendation can be made.

Montcalm placed third in this zone in 1958. It placed third in 1956 and fourth in 1957. It is not recommended for this zone.

York placed fourth in this zone in its first year of testing by the Wheat Pool. It does not appear particularly adapted to the area.

Parkland was outyielded by the other four varieties tested in this zone in 1958. However, it performed somewhat better in several previous years. It has performed well in other tests in this zone and is officially recommended.

### Cereal Variety Zone 3H

Only one successful barley test was located in this zone in 1958. It was conducted by Ralph Kyle of Dorintosh and can be found in the section "Individual Summarized Results of all Tests—Barley" on page 75. Husky and Parkland are officially recommended for the zone.

Table No. 61—Summarized Results for Zone 3J

	Husky	Traill	Parkland	Montcalm	York
Yield in bushels per acre*	97.0	81.5	78.3	84.5	73.5
Days from seeding to ripening	100.0	100.0	98.0	97.5	93.5
Height of plants in inches	26.0	25.0	29.0	34.0	20.0
Straw strength (basis 1-strong to 9-weak)	2.5	2.0	2.8	3.0	3.0
Neck strength (basis 1-strong, 2-medium,					
3-weak)	1.3	1.3	2.0	2.0	1.7
Bushel weight in pounds	50.0	48.7	51.3	49.7	52.3
Commercial grades in percentage: 1 C.W. 6 R			33.3		
2 C.W. 6 R	_		33.3	66.7	1
2 CW 6 P	-	-	33.4	33.3	_
1 Feed	100.0	100.0			100.0

<sup>\*</sup>Necessary difference-8.51 bushels.

#### YIELD PERFORMANCE DURING RECENT YEARS-ZONE 3J

Husky outyielded the other four varieties tested in this zone by a substantial margin in 1958. It placed either first or second in each of the three previous years. Husky is well adapted to this zone and is officially recommended

Montcalm ranked second in yield in this zone in 1958. It placed first in 1956 and fifth in 1957. It has yielded well in other tests in this area and is officially recommended.

Traill ranked third in each of the last two years in this zone. It appears to have some adaptation to this area but further testing is required before an accurate recommendation can be made.

Parkland placed fourth in yield in this zone in 1958. It ranked fourth in 1956, but placed second in both 1955 and 1957. It has yielded well in other tests in the zone and is officially recommended.

York was outyielded by the other four varieties in its first year of testing by the Wheat pool.

Table No. 62—Summarized Results for Zone 4A

	Husky	Traill	Parkland	Montcalm	York
Yield in bushels per acre*	66.6	66.5	61.7	69.6	69.2
Days from seeding to ripening	93.0	93.5	94.0	94.5	90.0
Height of plants in inches	36.5	37.5	40.5	41.0	35.5
Straw strength (basis 1-strong to 9-weak)	2.4	2.0	2.7	2.8	1.7
Neck strength (basis 1-strong, 2-medium,					
3-weak)	1.6	1.3	1.3	1.2	3.0
Bushel weight in pounds	48.0	46.7	49.0	47.3	51.3
Commercial grades in percentage: 2 C.W. 6 R	-		100.0	66.7	
3 C.W. 6 R		-	_	33.3	
1 Feed	100.0	100.0			100.0

<sup>\*</sup>Yield differences not significant.

#### YIELD PERFORMANCE DURING RECENT YEARS—ZONE 4A

Montcalm placed first in yield in this zone in 1958. It placed fourth in 1956 and fifth in 1957. It has not produced outstanding results in other tests in this zone, and for this reason as well as its lack of straw strength, it is not recommended.

York placed second in this zone in its first year of testing by the Wheat Pool. It may have some adaptation to this area but has not been tested sufficiently for an accurate recommendation to be made.

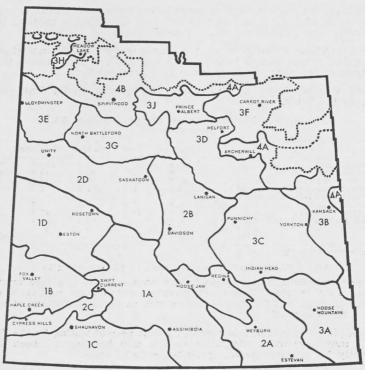
Husky placed third in this zone in 1958. It placed first in yield in this zone during each of the previous two years. Husky is officially recommended for the zone.

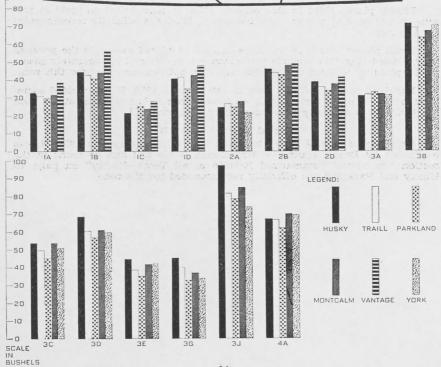
Traill placed fourth in this zone in 1958. It placed second in the previous year. Considering this variable performance it is difficult to accurately assess its adaptability without further testing. It is not recommended for this zone.

Parkland ranked fifth in yield in this zone in 1958. It has yielded somewhat better in other tests in this zone, and since it has stronger straw than Montcalm it is officially recommended for this zone.

#### Cereal Variety Zone 4B

Only one successful barley test was located in this zone in 1958. It was conducted by Ernest Hannis of Frenchman Butte and can be found in the section "Individual Summarized Results of all Tests—Barley" on page 75. Husky and Parkland are officially recommended for the zone.





#### Table No. 63

# Individual Summarized Results of All Tests—Barley

The results of all successful barley tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 7, headed, "Facts to be Remembered in Reading and Studying Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization According to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

For an explanation of the abbreviations under "Grading Remarks" see page 8.

				W	HEAT	POOL	DISTR	ICT 1			
Cereal Variety Zone	Dist	Sub-	. Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw	Neck strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
							MB, AL	IDA .			
3A	1	2	Husky		81 82	16 14	3.0	1.8	49 50	1 Fd. 1 Fd.	_
			Traill Parkland		81	17	2.0	1.5	51	2 C.W. 6 R.	G.
			Montcalm.	19.3	82	20	1.3	1.8	50	2 C.W. 6 R.	G.
			York		82	13	4.3	2.8	51	1 Fd.	_
Yield dif	ferer	ices n	ot significar	nt. Rainf	all—May t	o August	2.10 inche	s.			
2.4		2	T.Y Inc.		ONALD T	TWIETM	EYER, O	XBOW		2.174	
3A	1	3	Husky Traill	_	_				44	2 Fd. 2 Fd.	
			Parkland	_			_	=	44	2 Fd.	
			Montcalm.		_	-		_	45	2 Fd.	-
			York		_	_	_	-	44	2 Fd.	
Samples	bulk	ed—	yields not re	liable. R	ainfall reco	ord incom	plete.	11636			
					RVIN H. 1		URN, ES	TEVAN			
2A	1	5				25 23	_	-	46	1 Fd.	-
			Traill Parkland			25		1	48 48	1 Fd. 2 C.W. 6 R.	
			Montcalm.			27	_		47	3 C.W. 6 R.	
			York	15.0	_	23	_		51	1 Fd.	
Necessar	y dif	feren	ce-7.37 bu	shels. Ra	infall recor		lete.				
				DONA	ALD E. R	ICHARD	SON, ST	OUGHTO	N		
2A	1	9	Husky	. 22.9	84	16	1.5	1.5	42	3 Fd.	_
			Traill	. 25.8	86	18	1.0	2.3	43	2 Fd.	-
			Parkland		85	18	1.3	1.5	42	3 Fd.	-
			Montcalm.		83	20	1.0	1.5	41	3 Fd.	
Yield dif	ferer	ices n	York ot significar	. 21.5 nt. Rainf	85 all—May t	18 to August	1.5 3.52 inche	1.5	48	1 Fd.	
					3			-			
2 4	1	10	Linden		RICE G.	QUENNE 30	1.8	1.8	45	2 Fd.	
3A	1	10	Husky Traill		94	27	3.3	1.8	48	1 Fd.	
			Parkland		94	28	1.3	2.3	46	3 C.W. 6 R.	
			Montcalm.		94	31	5.0	1.8	47	3 C.W. 6 R.	-
			York		94	27	2.5	1.8	46	1 Fd.	
Test dan	nage	d by	shattering—	yields not	included in		nmary. F	Rainfall—N	lay to Aug	sust 4.47 inches	3.
2A	Tes					e by floo	ding, pes	ts, hail, d	rought or	other causes	
2A	1	8	Wayne A. Jim F. Wa	tts, Weyb	urn.						
				w	HEAT	POOL	DISTR	ICT 2			
2A	2	1	Husky		HAROLD	E. OLSO	N, BROO 3.0	1.0	43	2 Fd.	_
	-	•	Traill			17	1.0	1.0	48	1 Fd.	-
			Parkland	25.2	-	17	1.0	1.3	48	2 C.W. 6 R.	
			Montcalm.		-	18	2.0	1.3	46	3 C.W. 6 R.	-
Yield dif	ferer	ices n	Yorkot significar	26.7	all—May t	O August	1.0 3.23 inche	2.0	53	1 Fd.	7.0
- Icia dii	LCI CI	11	or significal	Ituliii							
1A	2	2	Husky	. 18.9	SHIRLEY	FETTE 24	S, GLAD:	2.0	46	1 Fd.	_
	-	-	Traill		-	23	9.0	2.0	47	1 Fd.	_
			Parkland	. 16.8	-	24	9.0	2.0	44	2 Fd.	-
			Montcalm.	. 20.2	-	24	9.0	2.0	47	3 C.W. 6 R.	
			Vantage	19.4		24	9.0	2.0	44	2 Fd.	_
Yield dif	terer	ices n	ot significar	nt. Rainf	all record i	ncomplete					

## Wheat Pool District 2-Continued

Cereal Variety Sub Zone Dist. Dis	st. Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
1A, 2 3 Yield differences	Husky Traill Parkland Montcalm Vantage not significan	34.2 35.4 36.2 37.5 40.1	NEST P. A	20 20 21 21 21	1.5 1.8 1.8 2.3 2.3	1.8 1.3 2.3 2.0 1.3	45 49 49 48 46	2 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd.	=
1A 2 4	Husky Traill Parkland Montcalm Vantage	26.8 28.2 31.1 34.3	LEO PRE 114 113 113 113 113	28 29 28 28	2.0 2.0 1.8 2.0	1.5 1.8 1.5 1.0	48 49 51 50 46	1 Fd. 1 Fd. 1 C.W. 6 R. 1 C.W. 6 R. 1 Fd.	
Necessary difference   1C	Husky Traill Parkland Montcalm Vantage	9.6 12.0 13.0 12.8 16.1	82 82 82 80 81 75	MOEN, S 15 17 18 20 19	1.0 1.8 2.8 1.3 2.0	1.3 2.3 2.3 1.5 1.3	33 37 34 34 36	3 Fd. 3 Fd. 3 Fd. 3 Fd. 3 Fd. 3 Fd.	=
1A 2 6 Necessary differen	Husky Traill Parkland Montcalm Vantage vace—6.10 bus	13.3 21.8 15.8 15.8 21.6	89 91 86 90 93 ainfall recor	27 33 36 27 32	2.0 2.0 2.0 2.0 2.0	1.0 1.0 1.3 1.5 1.3	46 49 47 46 46	1 Fd. 1 Fd. 3 C.W. 6 R. 3 C.W. 6 R. 1 Fd.	
1C 2 7	Traill Parkland Montcalm Vantage	24.9 27.0 25.3 26.6 29.3	fall record i			IBOIA	42 48 48 46 46	3 Fd. 1 Fd. 3 C.W. 6 R. 3 C.W. 6 R. 1 Fd.	
1A 2 8 Yield differences	Husky Traill Parkland Montcalm Vantage not significan	30.0 29.9 27.8 30.0 37.5	94 94 94 94 94 91 fall—May t	28 27 28 29 29	1.0 1.0 1.0 1.0	2.0 2.8 2.5 2.3 1.0	35 38 39 38 38	3 Fd. 3 Fd. 3 Fd. 3 Fd. 3 Fd.	Ē
2A 2 10 Samples incomple	Husky Traill Parkland Montcalm York	9.2 8.8 8.5 7.4 12.4	ENNIS E.	WEBSTE	ER, TROS	SACHS	46 49 48 47 52 mplete.	1 Fd. 1 Fd. 2 C.W. 6 R. 3 C.W. 6 R. 1 Fd.	
	Thomas C.	Krogsgaa	ard Jr., Bur	es.			rought or	other causes	•
1C 3 4	Husky Traill Parkland Montcalm Vantage not significan	11.4 13.9 14.0 10.7 14.8	PEGGY H 96 96 96 96 96 fall record i	16 16 17 16 17	EK, FRON 1.0 1.0 1.0 1.0 1.0		41 41 43 39 39	3 Fd. 3 Fd. 2 Fd. 3 Fd. 3 Fd.	
1C 3 6  Yield differences in	Husky Traill Parkland Montcalm Vantage not significant	32.2 39.8 38.4 37.4 44.3	ENNETH  108 106 106 106 106 106 fall—May t	22 23 26 27 23	4.8 2.3 2.0 3.5 1.0	2.5 2.0 3.0 2.8 1.0	39 42 41 43 41	3 Fd. 3 Fd. 3 Fd. 2 Fd. 3 Fd.	
				66					

### Wheat Pool District 3-Continued

Cereal Variety Zone		Sub-	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw	Neck strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
Done	2000	2 1000									
					WAYNE		IS, EAST				
1C	3	7	Husky			8	6.5	2.3	43	2 Fd.	-
			Traill	13.7		10	7.5	2.0	46	1 Fd.	
			Parkland	12.4	-	9	7.0	2.3	45	2 Fd.	
			Montcalm.	14.5	-	10	7.0	2.3	45	2 Fd.	_
			Vantage	15.5		10	6.8	1.8	44	2 Fd.	
Yield dif	feren	ces no	ot significan	t. Rainf	fall—May	to August	2.46 inches	S.			
				BREN	DA M. W	TLLIAM	SON, SCO	TSGUAR	D		
1C	3	8	Husky		103	20	2.0	2.0	38	3 Fd.	-
10	,	0	Traill		103	20	2.0	2.0	39	3 Fd.	
			Parkland		100	25	2.0	2.0	43	2 Fd.	
			Montcalm.		100	25	2.0	2.0	44	2 Fd.	_
			Vantage		103	23	2.0	2.0	40	3 Fd.	
Yield dif	feren	ces no	ot significar				1.80 inches		40	3 1 4.	
		-							-		
					JOHN C	. KEELE	R, ANER			10000	
1A	3	10	Husky		94	22	1.3	2.5	41	3 Fd.	-
			Traill		90	21	1.3	3.0	43	2 Fd.	
			Parkland	28.0	82	24	1.0	3.0	43	2 Fd.	-
			Montcalm.	31.0	86	25	1.5	3.0	42	3 Fd.	-
			Vantage	36.3	91	23	1.3	1.3	42	3 Fd.	
Necessar	ry dif	ferend	e-3.21 bus	shels. Ra	ainfall-M	ay to Aug	ust 5.31 inc	ches.			

Tests discarded on account of damage by flooding, pests, hail, drought or other causes. 3 2 John W. Dukat, Rosefield.

WHEAT POOL DISTRICT 4 MELVIN F. REIMER, LEINAN

1A	4	3	Husky	-	102	11	4.5	2.5	43	2 Fd.	_
			Traill	-	100	11		3.0	47	1 Fd.	
			Parkland	-	104	13	2.5	2.3	45	2 Fd.	
			Montcalm		105	14	3.3	2.8	44	2 Fd.	-
			Vantage	-	107	13		2.8	46	1 Fd.	_
Test dam	aged	by	grasshoppers-	-yields	not reliable.	Rainfal	-May to	August 6.2	8 inches		
		101	V-11		PHILIP	R. GOR	DON, WE	EBB			
1B	4	4	Husky	42.7	95	24	2.0	2.0	52	1 Fd.	
10	7	-	Traill	41.4	95	27	2.0	2.0	53	1 Fd.	-
			Parkland		95	30	2.0	2.0	54	1 C.W. 6 R.	
			Montcalm.		93	31	2.0	2.0	53	1 C.W. 6 R.	
			Vantage	50.0	92	25	2.0	2.0	50	1 Fd.	
Yield diff	feren	ces r	ot significant	. Rain					-		
	-		Tall In		TOWALD !	DOWN	EN DATE	TOTIM	111	The same of the sa	-
		-	** 1		NGVALD J	26	1.3	1.5	53	1 Fd.	
1B	4	5	Husky	13.3			1.5	2.5	53	i Fd.	The second second
			Traill	13.2	-	26			54	1 C.W. 6 R.	
			Parkland	10.1	_	28		3.0		1 C.W. 6 R.	
			Montcalm	16.2	-	32	1.3	2.8	54		
			Vantage	20.2		26	1.5	1.5	52	1 Fd.	
Necessar	y dif	feren	ce-2.77 bush	nels. Ra	ainfall—Ma	y to Augu	st 5.29 inc	ches.			
					AINE J. S.	AWBY,	GOLDEN	PRAIRIE			
1B	4	6	Husky	98.3	-	-		-	51	1 Fd.	
			Traill				-	-	53	1 Fd.	-
			Parkland	99.2		-	-		54	1 C.W. 6 R.	-
			Montcalm	109.0	_			-	53	1 C.W. 6 R.	
			Vantage	121.0	-		-	-	52	1 Fd.	_
Yield diff	feren	ces n	ot significant	. Raint	fall—May to	o August	5.40 inches	S.			
				1	DONALD I	MYROL.	FOX VA	LLEY			
1B	4	7	Husky	24.7	92	27	2.0	2.0	50	1 Fd.	_
10	7		Traill	18.8	92	27	2.0	2.0	51	1 Fd.	-
			Parkland	16.6	92	31	2.3	2.3	50	1 C.W. 6 R.	-
			Montcalm.		92	30	2.3	2.0	48	2 C.W. 6 R.	
					92	28		2.0	48	1 Fd.	_
NY	1.0	c	Vantage						70		

 DONALD
 SCHERGER, MENDHAM

 71
 25
 1.5
 1.8

 67
 25
 2.5
 2.5

 70
 27
 2.0
 3.0

 69
 29
 1.5
 1.5

 68
 28
 1.0
 1.5

49

1 Fd.

1 Fd. 1 Fd. 1 C.W. 6 R. 1 C.W. 6 R. 1 Fd.

Montcalm.. 18.1 92 30 2.3 2 Vantage.... 30.0 92 28 2.0 2 Necessary difference—2.67 bushels. Rainfall—May to August 5.91 inches.

59.0 47.3 49.7 46.5 73.8

Necessary difference-5.19 bushels. Rainfall-May to August 2.96 inches.

Husky.....

Traill......... Parkland.... Montcalm.. Vantage.....

# Wheat Pool District 4—Continued

	1000			W	neat Foo	Distri	Ct 4-C0	mimuea			
Cereal Variety Zone	Dist.	Sub	t. Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Com- mercial grades	Grading
-				S. CI	HARLIE TU	CHSCH	ERER. PO	ORTREEV	TE.	1 61	
1D	4	9	Husky	_	_	_	_	_	44	1 Fd.	-
			Traill Parkland		_		_		47 45	1 Fd. 2 Fd.	
			Montcalm.					_	45	2 Fd.	_
Test dar	nager	by	Vantage grasshoppers		not reliable	Rainfal	I—May to	August 2	45 77 inches	2 Fd.	
Test dai	nasco	. Dy	Біазлоррсіз	yields			IG, CABI		11 menes.		St. 12
1B	4	10	Husky		-		-	_	- 49	1 Fd.	-
			Traill Parkland		_	=	_	_	51 51	1 Fd.	
			Montcalm	24.3	_	_	_	_	50	1 C.W. 6 R. 1 C.W. 6 R.	-
Necessar	v dif	feren	Vantage ce—3.66 bus	37.9 shels. R	ainfall—Ma	v to Augu	st 3.56 inc	hes.	48	1 Fd.	_
1B	Tes	ts di		accoun	t of damag	e by floo			ought or	other causes	
	-	1	Donaid L.		HEAT I		DISTR	ICT 5			100
			LAU		E AND MI				N BAIN		
1A	5	2	Husky	44.9	88	26	2.0	2.3	49	1 Fd.	-
			Traill Parkland	42.3 44.2	89 87	25 27	2.0	2.5	49 51	1 Fd. 2 C.W. 6 R.	G.
			Montcalm	43.7	87	29	2.0	2.0	51	2 C.W. 6 R. 2 C.W. 6 R.	G. G.
Yield dif	feren	ces n	Vantage ot significan	50.2 t. Rain	88 fall—May t	o August	2.0 5.73 inches	2.0	48	1 Fd.	-
				WI	LLIAM M.	M. BRO	WN, VAN	NGUARD			
1A	5	3	Husky	49.2	LLIAM M.	22	2.5	2.0	49	1 Fd.	-
			Traill Parkland		_	21 24	1.8	2.0	50 50	1 Fd. 1 C.W. 6 R.	_
			Montcalm	46.9	2 pm	27	2.5	1.8	51	1 C.W. 6 R. 1 C.W. 6 R.	
Yield dif	feren	ces n	Vantage ot significan	47.6 t. Rain	fall—May to	o August	2.0 5.26 inches	1.0	48	1 Fd.	-
	-				ARRY C. N			-			-
1A	5	4	Husky	48.1	91	29	1.0	_	53	1 Fd.	
			Traill Parkland		97 97	33 35	1.8		55 56	1 Fd.	
			Montcalm.	47.9	97	35	5.0	_	54	1 C.W. 6 R. 1 C.W. 6 R. 1 Fd.	_
Necessar	v dif	feren	Vantage ce—11.34 bu		97 Rainfall—M:	31 av to Aug	1.0 ust 5.14 in	ches.	51	1 Fd.	-
	-			-	DAVE A. S				7		
1A	5	6	Husky	39.7		23	1.0	2.0	49	1 Fd.	_
			Traill		_	21 22	2.3	2.8	50 51	1 Fd.	700
			Parkland Montcalm		_	25	2.5	2.3	50	1 C.W. 6 R. 1 C.W. 6 R.	
Necessar	v diff	oren	Vantage ce—7.51 bus	51.3	ainfall_Ma	21	2.5	2.0	47	1 Fd.	_
10003341	y dili	CICII	7.51 bus								
2B	5	8	Husky	17.1	ENNIS G. I	- LESUR	LAKE V	ALLEY		3 Fd.	
			Traill	18.6	-	-	-	-		3 Fd.	-
			Parkland Montcalm		_	_		I		3 Fd. 3 Fd.	_
Viala dif	faran	200 10	Vantage	16.7	Fall May to	August '	2 00 inches	100		3 Fd.	-
rieid dii	rerene	es n	ot significant								
A	5	9	Husky	30.7 L	10YD E. 1	SMITH,	HALVOR 2.3	3.0	49	1 Fd.	_
			Traill	23.8	94	15	2.0	3.0	50	1 Fd.	***
			Parkland Montcalm		94 94	15 16	2.0	3.0	50 50	2 C.W. 6 R. 2 C.W. 6 R.	W. W.
			Vantage	33.7	94	17	2.0	3.0	49	1 Fd.	
rield dif	teren	ces no	ot significant	t. Kain	tall record in	complete					
A	Test 5	s.dis	Raymond W			by flood	ling, pests	s, hail, dr	ought or	other causes.	
				w	HEAT P	POOL	DISTRI	CT 6		Tall you of her	Party and
-	,				ASHLEY G	BOESO	H, RICE	TON	***		
E	6	2	Husky Traill	69.5 62.8	89 88	24	1.3	2.0 3.0	50 51	1 Fd. 1 Fd	_
			Parkland	59.7	91	25	1.8	2.3	51	1 Fd. 1 C.W. 6 R. 1 C.W. 6 R.	-
			Montcalm	61.0	92	28	1.8	1.8	50	1 C.W. 6 R.	-
amples	bulke	d—y	Yorkields not incl	28.1 luded in	86 zone summa	ary. Rain	1.3 Ifall record	2.3 l incomplet		1 Fd.	110-577-01
		-									-
						60					

## Wheat Pool District 6-Continued

Cereal Variety Zone		Sub-	. Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw	Neck strength	Lbs. per measured bushel	Com- mercial grades	Grading
				RC	NALD H.	SANDE	RSON. AV	ONLEA			
2E	6	4	Husky	. 40.1	88	33	1.0	1.0	45	2 Fd.	-
			Traill Parkland	42.0	86 86	33 33	1.0	1.0	49	1 Fd. 2 Fd.	
			Montcalm.	39.9	87	34	1.3	1.0	47	3 C.W. 6 R.	-
Necessar	y dif	feren	Yorkce—9.35 bus	50.5 shels. Ra	74 ainfall—Ma	33 ay to Aug	3.0 ust 2.99 inc	2.0 ches.	51	1 Fd.	Jacob Maria
25	,	-	***	F1 5	HOWARD	J. DUN	CAN, RE	GINA		• 51	
2E	О	7	Husky Traill	51.7	100	29 31	2.3	2.3	45 50	2 Fd. 1 Fd.	_
			Parkland	37.2	98	31	2.3	2.0	49	2 C.W. 6 R. 2 C.W. 6 R.	
			Montcalm. York		101 95	31 27	3.0	1.8	48 51	2 C.W. 6 R. 1 Fd.	
Unsatisfa	actor	y ger	mination—y	ields not			mary. Ra	ainfall—M		st 4.19 inches.	
3C	6	8	Husky	JAM: 45.9	ES M. ST.	EPHENS 29	ON, INDI	AN HEAD	51	1 Fd.	
30	0	0	Traill	37.2	88	29	1.3	1.5	53	1 Fd.	_
			Parkland	. 31.9	89	31	1.5	1.8	54	1 C.W. 6 R.	-
			Montcalm. York	24.2	90 86	32 28	1.5	1.0	53 55	1 C.W. 6 R. 1 Fd.	_
Necessar	y dif	feren	ce-7.08 bu	shels. R	ainfall—Ma	ay to Aug	ust 3.83 inc	ches.			
2.4						e by floo	ding, pest	s, hail, di	rought or	other causes.	
2A 2E	6	6	Barry J. H. Gaileen B.	Waller, D	rry. Finkwater.						
	- 4		1	W	HEAT	POOL	DISTR	ICT 7			
				MI	LTON R.	SHOEM	AKER, KI	ENNEDY			
3A	7	3	Husky		98 95	32	2.0	2.0	45	2 Fd.	_
			Traill Parkland	35.7	95	30 33	3.0	3.0	46 47	1 Fd. 3 C.W. 6 R.	_
			Montcalm.	. 33.0	95	36	3.0	2.0	46	3 C.W. 6 R.	_
Yield dif	feren	ces n	York ot significar		92 fall—May 1	23 to August	1.0 5.82 inches	3.0 s.	50	1 Fd.	
			** 1		RONALD	F. PILLE	ER, GREN	FELL	40	0.71	
3A	7	7	Husky Traill		88 87	24 23	_		40 42	3 Fd. 3 Fd.	_
			Parkland	37.0	87	25			43	2 Fd.	
			Montcalm. York		87 85	25 24	_	-	40 46	3 Fd. 1 Fd.	_
Yield dif	feren	ces n	ot significar				4.37 inches	s	40	110.	
20	7	0	Y.Y. Jan		RBERT G	MAGN	usson, s			2.54	
3C	7	9	Husky Traill		_	28 27	2.5	2.0	44	2 Fd. 1 Fd.	
			Parkland		_	25	2.0	2.0	47	3 C.W. 6 R.	-
	14		Montcalm. York			28 27	2.3	2.0	46 49	3 C.W. 6 R. 1 Fd.	
Test dan	naged	l—yi	elds not relia	able. Ra	infall—Ma	y to Augu	st 2.75 inc	hes.	47	110.	
20	-	11	Timeles	KI	ENNETH .	J. MUJY	GLA, WA		,-	2.54	
3C	1	11	Husky Traill		87 89	26 29	1.5	1.8	45 46	2 Fd. 1 Fd.	
			Parkland	. 32.3	86	28	2.0	2.0	49	2 C.W. 6 R.	
			Montcalm. York	37.7	88	31	1.3	1.5	47 51	3 C.W. 6 R. 1 Fd.	_
Necessar	y dif	feren	ce-6.70 bus	shels. R	ainfall—Ma	y to Aug	ust 7.33 inc	ches.	31		
	Tes	ts di	scarded on	account	of damag	e by floo	ding, pest	ts, hail, d	rought or	other causes	
3A 3A	7 7	1	Larry H. F. Kenneth F.	isk, Kelso	0.						
	19			W	HEAT	POOL	DISTR	ICT 8			
				1000	EVELYN	G. WEC	NER, RE	IEIN			No.
3B	8	2	Husky	65.5	_	32	2.0	2.0	47	1 Fd.	-
			Traill Parkland	64.6	_	29 34	1.0	1.0	50 50	1 Fd.	
			Montcalm.	63.3		26	2.0	2.0	50	1 C.W. 6 R. 1 C.W. 6 R.	
V:-13 416	£	205	York	70.0	Fall Man	27	2.0	2.0	51	1 Fd.	_
r leid dif	reren	ces n	ot significan	t. Kain	Mail—May 1	o August	2.89 inche	S.	1 Augustus	2	Salt Come
						60					

## Wheat Pool District 8-Continued

Cereal Variety Sub Zone Dist. Dis		Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw	Neck	Lbs. per measured bushel	Com- mercial grades	Grading
		AN	DREW A.	MAND	ZIAK, GO	ODEVE			
3B 8 3	Husky	24.0	_	_	_		44	2 Fd.	-
	Traill		-	_		_	- 44	2 Fd.	-
	Parkland		-	_		-	43	2 Fd.	
7.	Montcalm.		-		-		43	2 Fd.	
Necessary differen	York nce—6.17 bus	shels. Ra	ainfall—Ma	y to Aug	ust 4.47 inc	ches.	48	1 Fd.	
		R	ICHARD	PIKULA	. AMSTE	RDAM			
3B 8 6	Husky	89.2	90	40	1.5	2.0	52	1 Fd.	
	Traill		90	40	1.8	2.5	50	1 Fd.	
	Parkland		89	43	1.8	2.0	53	1 C.W. 6 R.	
	Montcalm.		90	44	4.5	2.5	50	1 C.W. 6 R.	-
11 1100	York	78.6	90	39	1.8	1.5	53	1 Fd.	
Necessary differe	nce—11.02 bi	ishels. R	ainfall—M	ay to Au	gust 5.36 ir	iches.			
20 0 7	I I I	00 1			INVERM		50	1 Fd.	
3C 8 7	Husky Traill		94 92	43 40		_	50 48	1 Fd.	
	Parkland		93	48			49	1 Fd.	G.
	Montcalm.		96	48			48	1 Fd.	Ğ.
	York		89	40			53	i Fd.	<u> </u>
Necessary differen	nce—9.49 bus	hels. Ra			lete.				
		LY	NN M. R	OSAASE	N, HINC	HLIFFE		14.1	
4A 8 8	Husky			-	-	_	49	1 Fd.	-
	Traill		_	-			46	1 Fd.	-
	Parkland		-		-		49	2 C.W. 6 R.	
	Montcalm		-			-	46	3 C.W. 6 R.	_
Yield differences	York		fall May t	o August	5 55 inche		51	1 Fd.	_
Tield differences	not significan	t. Kaliii	all—May t	o August	5.55 mene	5.			
	100 To 10			D. HAM	I, NORQI				
3B 8 9	Husky		84	-	2.3	1.3	48	1 Fd.	_
	Traill		85	_	4.5	1.0	49	1 Fd.	_
	Parkland		84	-	2.0	1.3	51	1 C.W. 6 R.	
	Montcalm.		85 84		3.3	1.8	48 51	2 C.W. 6 R. 1 Fd.	
Yield differences	York			o August			31	I ru.	ME . TITLE
rieid differences	not significan	t. Kalili	an Iviay l	o August	o.os mene	J.			

# WHEAT POOL DISTRICT 9

					JOHN F	. HEGG	IE, LERO	SS			
3C	9	3	Husky	28.2	114	24	1.0	1.8	46	1 Fd.	
			Traill	25.2	113	24	1.0	1.8	47	1 Fd.	-
			Parkland	21.7	116	25	1.5	1.8	47	3 C.W. 6 R.	
			Montcalm.	22.0	114	28	1.3	1.3	46	3 C.W. 6 R.	-
			York	28.9	101	25	1.5	1.8	52	1 Fd.	
Necessar	y diff	eren	ice—5.48 bush			y to Augu		hes.			
			I I I I I I I I I I I I I I I I I I I	ROE	ERT W. S	CHNEID	ER, STR	ASBOURG	1		
3C	9	4	Husky	70.2	91	28	1.0	2.0	43	2 Fd.	
			Traill	78.6	86	28	1.0	2.0	47	1 Fd.	-
			Parkland	77.8	91	28	1.0	2.0	48	2 C.W. 6 R.	
			Montcalm		92	28	1.0	2.0	47	3 C.W. 6 R.	-
			York	85.7	84	28	1.0	2.0	50	1 Fd.	-
Yield dif	ferenc	ces r	not significant								
		-			RONALD	K. McE	AY, GOV	AN			
2B	9	5	Husky	78.6	96	34	3.0	2.0	48	1 Fd.	_
			Traill	70.6	95	34	3.3	2.0	50	1 Fd.	-
			Parkland	69.5	95	35	3.0	2.0	51	1 C.W. 6 R.	
			Montcalm	79.5	94	37	3.0	2.0	51	1 C.W. 6 R.	
			Vantage	82.7	96	33	1.8	1.0	49	1 Fd.	
Necessar	y diff	eren	ce-5.69 bush	nels. R	ainfall—Ma	y to Augu	st 5.68 inc	hes.			
					MAS ROBE		STEAD,	NOKOMI	S		
2B	9	6	Husky	39.4	105	31	1.0	2.5	44	2 Fd.	-
			Traill	40.9	105	31	1.0	3.0	47	1 Fd.	-
			Parkland	35.9	105	34	1.0	2.8	47	3 C.W. 6 R.	
			Montcalm	34.5	105	32	1.3	2.3	46	3 C.W. 6 R.	-
			Vantage	37.1	105	31	1.0	1.0	45	2 Fd.	_
Yield diff	ferend	ces r	not significant		fall-May to	August	3.18 inches		100		
						9					

# Wheat Pool District 9-Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw	Neck strength	Lbs. per measured bushel	Com- mercial grades	Grading
					NALD J.	SCHIND	ELKA, RA	YMORE			
3C	9	7	Husky	30.4	-	_	-	-	42 38	3 Fd. 3 Fd.	- 13
			Traill Parkland	26.1 35.3	_				40	3 Fd.	-
			Montcalm	18.6	-	_		_	41	3 Fd.	
Samples	incor	nnlete	York -yields no	26.0	d in zone si		Rainfall_	-May to A	46 uguet 4 12	1 Fd.	
Samples											A NAME OF THE PARTY OF THE PART
3C	Tes 9	2	sc <b>arded on</b> William W. June and Sa	Steward	, Markinch		ding, pes	ts, hail, d	rought or	other causes	110
			142	W	HEAT I	POOL	DISTRI	CT 10	et dinte et dinte desemble	ar ski kraj v Live je supelije	to grant to
				G	JOSEPH A	A. BOEH	M, HOLI	FAST			-
2B	10	1	Husky	35.8	81	27	4.3	2.0	38	1 Fd.	1 -
			Traill	33.8 36.6	81 81	25 27	2.3	1.3	39 41	1 Fd. 3 Fd.	
			Parkland Montcalm	38.1	81	28	4.8	1.8	39	3 Fd.	_
			Vantage	42.7	81	26	3.3	1.0	39	3 Fd.	_
Yield dif	feren	ices no	ot significan	t. Rainf	fall—May 1	to August	5.70 inche	S. :			75000
	10	-		12.7	MERVIN	J. TUP	LIN, BEE 5.0	CHY	50	1.51	
A	10	3	Husky Traill	13.7 15.0	82	15	4.5	1.8	50 52	1 Fd. 1 Fd.	11
			Parkland	10.3	86	20	4.5	2.5	50	2 C.W. 6 R.	G.
			Montcalm	19.6	81	18	3.5	1.8	51	2 C.W. 6 R. 1 C.W. 6 R.	-
rield dif	feren	ces no	Vantage ot significan	14.0	82 fall—May 1	16 to August	2.8 1.75 inche	1.5 s.	49	1 Fd.	-779
			- 018								
n	10		Liveley	52.1	ORDON I	SAWY	1.5	SMORE	47	1 Fd.	
D	10	4	Husky Traill	49.5	104	29 29	1.3	2.0	51	i Fd.	1
			Parkland	48.0	102	33	2.0	2.0	49	2 C.W. 6 R. 1 C.W. 6 R.	_
			Montcalm	49.1	100	34	1.3	2.0	50	1 C.W. 6 R.	_
Yield dif	feren	ces no	Vantage ot significan	53.0 t Raint	104 fall—May 1	to August	1.8 3.92 inche	1.5	49	1 Fd.	_
2D	10	5	Husky	38 0	97 98	. HUPKI	NS, BRA	2.0	49	1 Fd.	
٠٠٠	10	,	Traill	38.0 27.7	98	17	3.0	2.0	49	1 Fd.	_
			Parkland	31.0	96	21	3.3	3.0	49	1 Fd. 2 C.W. 6 R. 3 C.W. 6 R.	-
			Montcalm	31.0	97	23	2.3	1.8	47	3 C.W. 6 R.	_
Necessar	v dif	ferenc	Vantage e—6.10 bus	39.6 hels. Ra	96 ainfall—Ma	21 av to Aug	2.5 ust 4.47 inc	1.8 ches.	47	1 Fd.	ment in
1000000	,										
2D	10	6	Husky	36.3	. PETER	FARDE	N, BROD	ERICK	45	2 Fd.	11 - 0
			Traill	36.4	-		-	-	48	1 Fd.	
			Parkland	32.7	-	_			48 48	2 C.W. 6 R. 2 C.W. 6 R.	_
			Montcalm Vantage	34.1 35.9					46	1 Fd.	_
Yield dif	feren	ces no	ot significan		fall-May 1	to August	4.72 inche	s.	,,,	100	
					DIRK L	. CORNI	SH, GIR	VIN	42	2.51	
2B	10	7	Husky	52.3			_		42 48	3 Fd. 1 Fd.	11
			Traill Parkland	47.1 51.1			_		49	2 C.W. 6 R.	_
			Montcalm.	52.9		-	-	-	46	2 C.W. 6 R. 3 C.W. 6 R.	_
Verecos	v dif	ferenc	Vantage e-3.41 bus	52.7	ninfall—Ma	av to Aug	ust 3.94 in	ches.	47	1 Fd.	
Tecessar	y dir	rerene	3.41 003		WILLIAM	-					2
2B	10	8	Husky		99		6.0	2.0	48	I Fd.	Y -
			Traill	-	92	20	6.0	2.0	47	1 Fd.	
			Parkland	-	96 94	25 18	6.0	2.0	47 44	3 C.W. 6 R. 2 Fd.	
			Montcalm Vantage	-	96	15	6.0	2.0	45	2 Fd.	
Test dan	naged	by g	rasshoppers	—yields 1			Il-May to	August 4.	53 inches.		
D			** 1	20.0	JAMES		DER, LAU	JRA	12	2.54	
2D	10	10	Husky	28.8	99	26	1.0	1.0	43 46	2 Fd.	-
			Traill Parkland	25.4 30.2	99	25 27	1.0	2.0	46	1 Fd. 3 C.W. 6 R.	
			Montcalm.	37.1	99	28	1.0	2.0	46	3 C.W. 6 R. 3 C.W. 6 R.	
			Vantage	33.1	99	26	1.0		44	2 Fd.	
Necessar	y dif	ferenc	e-5.04 bus	hels. Ra	infall—Ma	y to Augi	ust 5.77 inc	ches.	A CONTRACTOR	The second	7 4

## WHEAT POOL DISTRICT 11

Cereal Variety Zone	Dist.	Sub- Dist	. Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw	Neck strength	Lbs. per measured bushel	Com- mercial grades	Grading
1D		1	Husky Traill Parkland Montcalm. Vantage	. 36.7 . 37.2 . 32.3 . 41.9 . 47.4	JUNE M.	=	2.0 2.0 1.5 1.8 1.8	2.5 2.5 2.0 2.0 1.3	46 50 49 50 50	1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd.	G. G.
1D		3	Husky Traill Parkland Montcalm.	. 19.3 . 17.5 . 17.6 . 19.6	RICHARD 85 85 85 85 85	D. MICI 17 17 18 21	2.0 2.0 2.0 2.0 2.0	2.0 2.0 2.0 2.0 2.0	43 43 45 44	2 Fd. 2 Fd. 2 Fd. 2 Fd.	Ξ
Necessar	y dif	feren	Vantage ce—3.19 bus	shels. R	85 ainfall—Ma	y to Augu	2.0 ust 3.44 inc	2.0 ches.	43	2 Fd.	
1D		5 feren	Husky Traill Parkland Montcalm. Vantage vantage	. 37.0 . 34.4 . 30.2 . 37.3 . 38.7	76 76 76 76 76 77 76 ainfall record	25 25 26 27 24	1.0 2.0 1.8 1.5 1.5	1.3 2.3 1.5 1.5	50 53 52 52 50	1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd.	
					DENNI	S J. MO	IR, BEAD	LE			
ID			Husky Traill Parkland Montcalm. Vantage ot significar	36.8 31.5 37.2 37.5	98 99 99 100 100	28 28 26 29 27			50 49 51 49 58	1 Fd. 1 Fd. 1 C.W. 6 R. 2 C.W. 6 R. 1 Fd.	
Ticia dii	reren	ces in	ot significat			-					
1D		7	Husky Traill Parkland Montcalm. Vantage ce: 7.07 bus	. 59.0 . 73.3 . 49.3 . 68.1 . 84.2	84 85 83 84 86	33 33 38 40 34	1.0 1.0 1.0 1.0	2.0 3.0 3.0 2.3 1.0	48 52 51 50 51	1 Fd. 1 Fd. 1 C.W. 6 R. 1 C.W. 6 R. 1 Fd.	=
TVECESSAI	y un	iei ein	ce. 7.07 bus	neis. Ita							
2D			Husky Traill Parkland Montcalm Vantage ields not rel	=	Ξ	=======================================	RUTHI		43 48 45 44 48	2 Fd. 1 Fd. 2 Fd. 2 Fd. 1 Fd.	
Tests da	mage	u-y	ielus not rei		ainfall—Ma						
1D		9 ference	Husky Traill Parkland Montcalm. Vantage ce—2.32 bus	. 41.0 . 38.4 . 32.4 . 40.8 . 47.0	92 92 92 91 91 91 ainfall—Ma	20 21 24 26 20	2.0 2.0 2.0 2.0 1.0	2.0 1.0 3.0 3.0 1.0	51 53 53 52 51	1 Fd. 1 Fd. 1 C.W. 6 R. 1 C.W. 6 R. 1 Fd.	
	7				MARVIN	C. BANE	S, LUSE	LAND			
1D		10	Husky Traill Parkland Montcalm. Vantage	. 13.4 . 13.3 . 7.2 . 5.2 . 21.0	Ξ	20 22 24 23 24	2.0 2.0 2.0 2.0 2.0	2.3 2.3 2.3 2.5 2.3	49 47 48 47 46	1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd.	w. w.
Test dan		-	elds not incl							other causes	
1D			James C. F								
				w	HEAT F	POOL	DISTRI	CT 12			
2D		1 ference	Husky Traill Parkland Montcalm Vantage ce—10.36 bu	52.3 41.7 41.7 54.5	Ξ		DL, BIGG	E	52 49 51 49 50	1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd.	G. G.

# Wheat Pool District 12-Continued

Days Plant

Cereal Variety Zone D	Sub ist. Dis	t. Varieties	Yield bus. per acre	seeding to ripening	height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
2D 12	2 3	Husky Traill	38.2	ENNIS M. 89 88	34 34	2.0	1.0 1.0	40 44	3 Fd. 2 Fd.	0 = 1
		Parkland Montcalm	35.5 42.5	91 89	36 36	2.0	1.0	46 45	2 Fd. 3 C.W. 6 R. 2 Fd.	_
Yield diffe	rences	Vantage not significant	41.7	90	35	2.0	1.0	45	2 Fd.	
			-	RANCE F.				ī		-
2D 12	6	Husky Traill	47.5	88 88		_	_	50 50	1 Fd. 1 Fd.	-
		Parkland	38.4 37.5 38.3	89 88	-	_	- 1	51	3 C.W 6 R. 3 C.W. 6 R.	D. D.
Macacanny	difform	Montcalm Vantage	44.9	88			00 I 1	49 47	1 Fd.	D.
ivecessary	differen	nce—2.90 busl	ieis. K					more to be	abumed ste	
3E 12	8	Husky	54.0	RUSS	G. LOY,	MARSDE	- N	46	1 Fd.	1 - 1
		Traill Parkland	45.9 45.3		_			47 50	1 Fd. 1 C.W. 6 R. 3 C.W. 6 R.	
		Montcalm York	45.3 47.7 53.2		_	_	_	47 52	3 C.W. 6 R. 1 Fd.	_
Necessary	differe	nce—5.56 bush	nels. Ra	ainfall—Ma	ay to Augi	ust 3.37 inc	hes.			
2D 12	2 9	Husky	CH 17.7	ARLES W.	D. CHU	RCHILL,	WILKIE	47	1 Fd.	
1	,	Traill	14.1	_	_	-	_	48	1 Fd.	6. T
		Parkland Montcalm.	19.2		_		=	48 48	2 C.W. 6 R. 2 C.W. 6 R.	_
Necessary	differe	Vantage nce—3.01 busl	18.5	ainfall reco	rd incomp	lete.	-	47	1 Fd.	-
				-		BATTLEF	OPD	-	to the same of the	- T
3G 12	2 10	Husky	40.3	- BRUCE	25	1.0	1.0	54	1 Fd.	-
		I raill	35.0	-	24	1.0	1.0	53	1 Fd.	_
		Parkland	31.8		30	1.0	2.0	55	IC.W. OR.	
		Parkland Montcalm York	31.8 34.6 42.3	MET	30 30 25	1.0	3.0	53 55 54 54	1 Fd. 1 C.W. 6 R. 1 C.W. 6 R.	_
Necessary	differe	Montcalm Yorknce—4.33 busl	34.6	ainfall reco	30 25	1.0	3.0	55 54 54	1 C.W. 6 R. 1 Fd.	=
2D 12	Cests d	Montcalm York	34.6 42.3 hels. Raccount omkins,	of damag Broadacre	30 25 rd incomp	1.0 1.0 lete.	3.0	54	1 Fd.	
2D 12	Cests d	Montcalm Yorknce—4.33 busl iscarded on a Robert D. T	34.6 42.3 hels. Raccount omkins, thert, Se	of damag Broadacre	30 25 rd incomp ge by floo s.	1.0 1.0 lete. ding, pest	3.0 1.0 s, hail, da	54	1 Fd.	ar X c
2D 12 2D 12	Cests d	Montcalm York nce—4.33 busl iiscarded on : Robert D. T Donald Reic	34.6 42.3 hels. Ranceount Comkins, chert, Ser	Broadacressiac.	30 25 rd incomp ge by floo s.	1.0 1.0 lete. ding, pest	3.0 1.0 s, hail, da	54 rought or	other causes	at % o
2D 12 2D 12	Cests d	Montcalm York nce—4.33 busl iiscarded on : Robert D. T Donald Reic	34.6 42.3 hels. Ranceount Comkins, chert, Ser	Broadacres nlac.  HEAT F  NORBERT 96 97	30 25 rd incomp ge by floo s.	1.0 1.0 lete. ding, pest	3.0 1.0 s, hail, do	54	other causes	
2D 12 2D 12	Cests d	Montcalm York nce—4.33 busl iscarded on a Robert D. T Donald Reic  Husky Traill Parkland	34.6 42.3 hels. Ranceount Comkins, chert, Ser	Broadacreenlac.  HEAT F  NORBERT 96 97 95	30 25 rd incomp ge by floo s.	1.0 1.0 lete. ding, pest DISTRIC T, BAY T 1.8 2.0 1.8	3.0 1.0 s, hail, do CT 13 CRAIL 1.3 2.8 2.0	54 rought or 49 49 49	other causes	
2D 12 2D 12 3D 13	Tests d 2 4 2 7	Montcalm York Robert D. T Donald Reic  Husky Traill Parkland Montcalm. York	34.6 42.3 42.3 aeceount omkins, thert, Ser	Broadacressilac.  HEAT F  NORBERT 96 97 95 95 98	25 rd incomp ge by floo s. POOL I BRECH 33 32 34 33 33	1.0 lete. ding, pest DISTRIC T, BAY T 1.8 2.0 1.8 1.5 2.0	3.0 1.0 s, hail, do CT 13 CRAIL 1.3 2.8 2.0 1.3 3.0	54 rought or 49 49 49 48 50	other causes	
2D 12 2D 12 3D 13	Tests d 2 4 2 7	Montcalm York nce—4.33 busl iscarded on a Robert D. T Donald Reic  Husky Traill Parkland Montcalm.	34.6 42.3 42.3 aeceount omkins, thert, Ser	HEAT F NORBERT 96 97 95 98 reliable. F	30 prod incomp ge by floo s. POOL I BRECH 33 32 34 33 33 33 33 33 33 33	1.0 lete. ding, pest ding, pest T, BAY T 1.8 2.0 1.8 1.5 2.0 May to Aug	3.0 1.0 s, hail, do CT 13 CRAIL 1.3 2.8 2.0 1.3 3.0 gust 3.58 in	54 rought or 49 49 49 48 50	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R.	H 20
2D 17 2D 17 3D 13	Tests d 2 4 2 7	Montcalm York Robert D. T Donald Reic  Husky Traill Parkland. Montcalm. York livestock—yie	34.6 42.3 hels. Raccount omkins, chert, Sei	HEAT F NORBERT 96 97 95 98 reliable. F	30 prod incomp ge by floo s. POOL I BRECH 33 32 34 33 33 33 33 33 33 33	1.0 lete. ding, pest ding, pest T, BAY T 1.8 2.0 1.8 1.5 2.0 May to Aug	3.0 1.0 s, hail, do CT 13 CRAIL 1.3 2.8 2.0 1.3 3.0 gust 3.58 in	54 rought or 49 49 49 48 50 nches.	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 1 Fd. 1 Fd.	
2D 17 2D 17 3D 13	Tests d 2 4 2 7	Montcalm York Robert D. T Donald Reic  Husky Traill Parkland Montcalm. York. livestock—yie  Husky Traill Traill Traill Traill Totall Totall Totall Traill Traill Traill Totall Traill	34.6 42.3 hels. Ri account omkins, hert, Sei	Broadacre nlac.  HEAT F  NORBERT 96 97 95 98 reliable. F  ROY E. 102	20 25 rd incomp ge by floo s. POOL I BRECH 33 32 23 34 33 33 Rainfall—I	1.0 lete.  ding, pest  ding, pest  T, BAY T  1.8 2.0 1.8 1.5 2.0 May to Aug  SKI, YOU  2.8 2.3	3.0 1.0 s, hail, do CT 13 CRAIL 1.3 2.8 2.0 1.3 3.0 gust 3.58 in NG 1.8 2.8 2.8	54 rought or 49 49 49 48 50 nches.	1 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd.	
2D 17 2D 17 3D 13	Tests d 2 4 2 7	Montcalm  Montcalm  York  Robert D. T  Donald Reic  Husky  Traill  Parkland  Montcalm  Husky  Traill  Parkland  Montcalm  Montcalm	34.6 42.3 nels. Riaccount omkins, thert, Sei	Broadacre nlac.  HEAT F  NORBERT 96 97 95 98 reliable. F  ROY E. 102 102 102	POOL I  BRECH 33 32 24 33 32 34 33 32 34 37 Rainfall—I  KAMIN: 27 28 30	1.0 lete.  ding, pest  ding, pest  T, BAY T 1.8 2.0 1.8 1.5 2.0 May to Aug  SKI, YOU 2.8 2.3 3.8 3.0	3.0 1.0 s, hail, do FRAIL 1.3 2.8 2.0 1.3 3.0 gust 3.58 in 1.8 2.8 2.8 2.3	54 rought or 49 49 49 48 50 nches.	1 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd.	
2D 12 2D 12 3D 13	Cests d 2 4 2 7 7 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Montcalm. York	34.6 42.3 hels. Raccount omkins, shert, Sei	HEAT F NORBERT 96 97 95 95 98 reliable. F ROY E. 102 102 102 102 102	30 25 rd incomp ge by floo s. POOL I BRECH 33 32 34 33 33 33 33 Rainfall—I	1.0 lete.  ding, pest  ding, pest  T, BAY T  1.8 2.0 1.8 1.5 2.0 May to Aug  SKI, YOU 2.8 2.3 3.8 3.0 1.8	3.0 1.0 s, hail, di CT 13 PRAIL 1.3 2.8 2.0 1.3 3.0 gust 3.58 in NG 1.8 2.8 2.8 2.8 2.8 1.5	54 rought or 49 49 49 48 50 nches.	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 1 Fd. 1 Fd.	
2D 12 3D 13 Test dama 2B 15	Gests d 2 4 2 7	Montcalm. York Robert D. T Donald Reic  Husky Traill York livestock—yie  Husky Traill York Ilvestock—yie  Husky Traill York In the standard of	34.6 42.3 hels. Ri account omkins, hert, Sei  WI  1 2 elds not  50.2 50.2 46.7 59.3 57.1 Rain	HEAT F  NORBERT 96 97 95 98 reliable. F  ROY E. 102 102 102 102 102 104 105 106 107 108 109 109 109 109 109 109 109 109 109 109	POOL I  BRECH  33 32 34 33 33 Rainfall—I  KAMINI 27 27 28 30 27 to August	1.0 lete.  ding, pest  ding, pest  T, BAY T  1.8 2.0 1.8 1.5 2.0 May to Aug  SKI, YOU 2.8 2.3 3.8 3.0 1.8	3.0 1.0 s, hail, di cT 13 2.8 2.0 1.3 2.0 1.3 3.0 gust 3.58 in NG 1.8 2.8 2.8 2.8	49 49 49 49 48 50 nches.	1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd.	
2D 12 2D 13 3D 15 Test dama 2B 15	Gests d 2 4 2 7	Montcalm. York. nce—4.33 busl iscarded on a Robert D. T Donald Reic  Husky Traill York. livestock—yie  Husky Traill Yartage not significant  Husky Traill Yartage Traill Traill Yartage Traill Traill Traill	34.6 42.3 hels. Riaccount omkins, shert, Sei will shert, Sei shert	HEAT F  NORBERT 96 97 95 98 reliable. F  ROY E. 102 102 102 102 102 104 105 106 107 108 109 109 109 109 109 109 109 109 109 109	POOL I  BRECH  33 32 34 33 33 Rainfall—I  KAMINI 27 27 28 30 27 to August	1.0 lete.  ding, pest  ding, pest  T, BAY T  1.8 2.0 1.8 2.0 May to Aug  SKI, YOU  2.8 2.3 3.8 3.0 1.8 5.22 inches	3.0 1.0 s, hail, di cT 13 2.8 2.0 1.3 2.0 1.3 3.0 gust 3.58 in NG 1.8 2.8 2.8 2.8	49 49 49 49 48 50 nches. 47 48 50 50 47	1 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd.	
2D 12 2D 13 3D 15 Test dama 2B 15	Gests d 2 4 2 7	Montcalm York Robert D. T Donald Reic  Husky Traill Parkland Husky Traill Parkland Vork Traill Vantage not significant  Husky Traill Vantage Traill Parkland Parkland Vantage Traill Parkland Parkland Parkland Parkland	34.6 42.3 hels. Ri account omkins, hert, Sei  WI  elds not  50.2 50.2 50.2 46.7 59.3 57.1 . Rain:	HEAT F  NORBERT 96 97 95 98 reliable. F  ROY E. 102 102 102 102 102 104 105 106 107 108 109 109 109 109 109 109 109 109 109 109	POOL I  BRECH  33 32 34 33 33 Rainfall—I  KAMINI 27 27 28 30 27 to August	1.0 lete.  ding, pest  ding, pest  T, BAY T  1.8 2.0 1.8 2.0 May to Aug  SKI, YOU  2.8 2.3 3.8 3.0 1.8 5.22 inches	3.0 1.0 s, hail, di cT 13 2.8 2.0 1.3 2.0 1.3 3.0 gust 3.58 in NG 1.8 2.8 2.8 2.8	49 49 49 49 48 50 nches. 47 48 50 47	1 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd.	
2D 12 3D 13 Test dama 2B 12 Yield diffe	Cests de la dela de	Montcalm. York. nce—4.33 busi iscarded on a Robert D. T Donald Reic  Husky. Traill. Parkland. Montcalm. Vantage. not significant Husky. Traill. Parkland. Montcalm. Vantage. Traill. Parkland. Husky. Traill. Parkland. Montcalm. Vantage. Traill. Vantage. Vantage. Traill. Vantage.	34.6 42.3 hels. Ri account omkins, hert, Sei  WI  1 1 2 2 46.7 59.3 57.1 Rain: 73.2 67.2 67.4 76.9	HEAT F  NORBERT 96 97 95 95 98 reliable. F  ROY E. 102 102 102 102 102 102 102 102 102 102	POOL I  BRECH 33 32 34 33 32 34 33 Rainfall—I  KAMINI 27 27 28 30 27 to August L. EVAN	1.0 lete.  ding, pest  ding, pest  T, BAY T  1.8 2.0 1.8 2.0 May to Aug  SKI, YOU  2.8 2.3 3.8 3.0 1.8 5.22 inches  S, DUNDI	3.0 1.0 s, hail, do s, hail, do cT 13 2.8 2.8 2.0 1.3 3.0 gust 3.58 in 1.8 2.8 2.8 2.8 2.8 1.5	49 49 49 49 49 48 50 nches. 47 48 50 47	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd.	
2D 12 2D 13 3D 13 Test dama 2B 13 Yield diffe	Cests de la dela de	Montcalm. York Robert D. T Donald Reic  Husky Traill Parkland Montcalm. Vantage not significant  Husky Traill Parkland Montcalm. Vantage not significant  Husky Traill Parkland Montcalm. Vantage Nontcalm. Wantage Traill Parkland Montcalm. Montcalm. Montcalm.	34.6 42.3 hels. Ri account omkins, hert, Sei  WI  1 2 elds not  50.2 50.2 46.7 59.3 57.1 Rain  73.2 67.2 57.2 67.9 Rain	HEAT F NORBERT 96 97 95 95 98 reliable. F ROY E. 102 102 102 102 102 102 102 102 102 104 MAYNE ————————————————————————————————————	POOL I  BRECH 33 32 34 33 33 Rainfall—I  KAMINI 27 27 28 30 20 to August	1.0 lete.  ding, pest  ding, pest  T, BAY T  1.8 2.0 1.8 2.0 May to Aug  SKI, YOU  2.8 2.3 3.8 3.0 1.8 5.22 inches  S, DUNDO  6.61 inches	3.0 1.0 s, hail, do FRAIL 1.3 2.8 2.0 1.3 3.0 gust 3.58 in VICEN ————————————————————————————————————	49 49 49 49 48 50 nches. 47 48 50 47 48 49 47	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 3 C.W. 6 R.	# E !
2D 12 2D 13 3D 13 Test dama 2B 13 Yield diffe	Pests d 4 7 3 1 3 2 rences	Montcalm. York.  Robert D. T Donald Reic  Husky. Traill. Parkland. Montcalm. Vantage. not significant  Husky. Traill. Parkland. Montcalm. Vantage. not significant  Husky. Traill. Parkland. Husky. Traill. Parkland. Montcalm. Vantage. not significant  Husky. Traill. Parkland. Husky. Traill. Parkland. Montcalm. Vantage. not significant	34.6 42.3 hels. Ri account omkins, hert, Sei  WI	HEAT F NORBERT 96 97 95 98 reliable. F ROY E. 102 102 102 102 102 102 102 104 WAYNE ————————————————————————————————————	POOL I  BRECH 33 32 34 33 33 33 Rainfall  KAMIN: 27 27 27 to August L. EVAN  to August HUNTE	1.0 lete.  ding, pest  ding, pest  DISTRIC  T, BAY T  1.8 2.0 1.8 2.0 May to Aug  SKI, YOU  2.8 2.3 3.8 3.0 1.8 5.22 inches  S, DUNDO  6.61 inches  R, SASS	3.0 1.0 s, hail, do s, hail, do cT 13 TRAIL 1.3 2.8 2.0 1.3 3.0 sust 3.58 in URN URN URN 2.8	49 49 49 49 48 50 nches. 47 48 50 50 47 46 49 49 49 47 46	1 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 2 C.W. 6 R. 1 Fd.	
2D 12 2D 13 3D 13 Test dama 2B 13 Yield diffe	Pests d 4 7 3 1 3 2 rences	Montcalm York Robert D. T Donald Reic  Husky Traill Parkland Montcalm. Vantage Husky Traill Parkland Montcalm. Vantage Husky Traill Parkland Montcalm. Vantage Husky Traill Parkland Montcalm. Vantage Traill Parkland Husky Traill Parkland Parkland	34.6 42.3 hels. Ri account omkins, hert, Sei  WI	HEAT F NORBERT 96 97 95 98 reliable. F ROY E. 102 102 102 102 102 104 WAYNE  fall—May t LENN A. 108 107 109	POOL I  BRECH  33 32 34 33 33 Rainfall—I  KAMIN: 27 27 27 to August  L. EVAN  HUNTE: 25 23 24	1.0 lete.  ding, pest  ding, pest  DISTRIC  T, BAY T  1.8 2.0 May to Aug  SKI, YOU  2.8 2.3 3.8 3.0 1.8 5.22 inches  F, DUNDO  6.61 inches  R, SASKA  4.5 4.3	3.0 1.0  s, hail, do  RAIL 1.3 2.8 2.0 1.3 3.0 gust 3.58 in  NG 1.8 2.8 2.3 1.5  URN	49 49 49 49 48 50 nches. 47 48 50 47 46 49 49 47 46	1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R.	G. G.
2D 12 2D 13 3D 13 Test dama 2B 15 Yield diffe	Pests d 4 7 3 1 3 2 rences	Montcalm York Robert D. T. Donald Reic  Husky Traill Parkland Montcalm. York Ivestock—yie  Husky Traill Parkland Montcalm. Vantage not significant  Husky Traill Parkland Montcalm. Vantage to significant  Husky Traill Husky Traill Husky Traill Vantage Traill Vantage Traill Vantage Traill Husky Traill Traill	34.6 42.3 hels. Ri account omkins, hert, Sei  WI  1 1 2 46.7 59.3 57.1 2 67.2 67.2 67.4 76.9 3 Rain:  G 20.7 17.3	HEAT F NORBERT 96 97 95 98 reliable. F ROY E. 102 102 102 102 102 104 WAYNE ————————————————————————————————————	POOL I  BRECH  33 32 34 33 33 33 Rainfall—I  KAMIN: 27 27 28 30 27 to August  HUNTE 25 23	1.0 1.0 lete.  ding, pest  ding, pest  T, BAY T 1.8 2.0 1.8 2.0 1.5 2.0 May to Aug  SKI, YOU 2.8 2.3 3.8 3.0 1.8 5.22 inches  S, DUND 6.61 inches  R, SASKA 4.5 4.3	3.0 1.0 s, hail, do s, hail, do cT 13 CT 13 2.8 2.0 1.3 3.0 gust 3.58 in 1.8 2.8 2.8 2.3 1.5	49 49 49 49 48 50 nches. 47 48 50 47 48 49 47 46	1 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 2 C.W. 6 R. 1 Fd.	

## Wheat Pool District 13—Continued

Cereal Variety Zone			ıb- ist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Com- mercial grades	Grading
					R	OGER SI	ERMACH	ESKY, S	MUTS			
3G				Husky Traill Parkland Montcalm York	42.2 40.8 33.7 42.8	=	=	=		41 44 46 43 49	3 Fd. 2 Fd. 3 C.W. 6 R. 2 Fd. 1 Fd.	
Necessa	ry di	iffer	enc	Yorke—7.54 bus	hels. Ra	infall—Ma	y to Augu	ist 4.11 inc	ches.			
2B				Husky Traill Parkland Montcalm Vantage elds not inc	46.4 45.0 50.0 47.7	103 100 99 100 100	30 27 29 29 27	2.3 3.5 2.3 2.3 3.3	2.0 2.5 2.0 1.8 3.0	48 49 53 53 46	1 Fd. 1 Fd. 2 C.W. 6 R. 3 C.W. 6 R.	
2B 2D 2D	Te 13 13 13	sts	dis		account Greenwo Oliver, R. noff, Van	of damag od, Chevio R. No. 5, S scoy.	e by floor	ding, pest			other causes	
					Wi	HEAT F	POOL	DISTRI	CT 14			
4A				Husky Traill Parkland Montcalm York e—5.19 bus	67.1 63.7 57.7 69.4 65.3	91 90 91 92 89	31 33 36 36 31	2.0 1.5 1.8 2.0 1.8	1.3 1.3 1.3 1.0 3.0	47 46 49 48 51	1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd.	=
	-					RRY AND			-			.,
3C				Husky Traill Parkland Montcalm York	60.9 55.2 56.6 44.6 44.5	79 76 78 77 75	32 33 35 37 36	2.3 3.8 1.8 4.0 6.0	1.0 1.3 1.0 1.3 1.0	46 46 51 50 53	1 Fd. 1 Fd. 1 C.W. 6 R. 1 C.W. 6 R. 1 Fd. st 3.49 inches.	=
Test da	mage	Eu D	y II	vestock—y						ay to Augu	st 5.49 menes.	
3D				Husky Traill Parkland Montcalm York	79.1 74.4 56.0 64.5 64.4	93 89 89 90 85	40 42 44 46 36	1.0 1.0 1.0 1.0	1.0 1.0 1.3 1.0 2.5	50 50 51 50 52	1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd.	w. w.
Necessa	ry d	Hier	enc	e—8.36 bus								
4A				Husky Traill Parkland Montcalm York 2—10.17 bu	77.1 81.7 76.3 89.8 87.7	95 97 97 97 97 91 ainfall—M	42 42 45 46 40	2.8 2.5 3.5 3.5 1.5	1.8 1.3 1.3 1.3 3.0	48 48 49 48 52	1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd.	=======================================
an			_		02.0		COTE,	PERIGO	RD		1.01	
Yield d				Husky Traill Parkland Montcalm York t significan	74.3 76.0 76.4 74.2	94 92 93 94 89 Fall—May t	to August	5.91 inches	- - - - s.	51 48 49 49 52	1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd.	
						OBERT C						
3F				Husky Traill Parkland Montcalm York e—7.23 bus	102.0 107.3 90.5 102.5 80.4		=	=		50 50 51 50 52	1 Fd. 1 Fd. 3 C.W. 6 R. 3 C.W. 6 R. 1 Fd.	
3D				Husky Traill Parkland Montcalm York e—4.11 bus	42.0 32.0 37.2 41.2 39.2	92 88 88 88 88 88 ainfall—Ma	24 24 24 26 25	1.5 1.0 1.3 1.5 1.3	1.0 1.3 1.3 1.3	47 47 50 49 52	1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd.	W. W.

### Wheat Pool District 14-Continued

Cereal Variety Zone	Dist.	Sub- Dist	. Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
			11 12 7		LORNE	G. HANS	EN, WEL	DON	1770255-9	La transfer de la constante de	111
3J	14	9	Husky Traill	66.8	107	26 25	2.5	1.3	51 50	1 Fd. 1 Fd.	-
			Parkland	50.4	103	29	2.8	2.0	52	3 C.W. 6 R.	W.
			Montcalm.	60.0	102	34	3.0	2.0	51	3 C.W. 6 R. 3 C.W. 6 R.	W.
Necessar	v dif	ferenc	Yorke—8.92 bus	65.2 shels. R	94 ainfall—Ma	20 av to Aug	3.0 ust 4.96 inc	1.7	53	1 Fd.	
	1			w	HEAT I	POOL	DISTRI	CT 15			
					MELVIN	REIDT,	DUCK L.	AKE			
3G	15	3	Husky	52.4	_	_	_	-	49	1 Fd.	
			Traill Parkland	43.2	U. OT. O.	THE PERSON	MAN TANK		51 52	1 Fd.	W.
			Montcalm.		HITT TURE	ST (L)	THE THE	10.1	50	2 C.W. 6 R. 2 C.W. 6 R.	W.
Magagaar	4:6	foron	York	31.1	ainfall M	- Aug			53	1 Fd.	
Necessar	y dii	rerene	ce—4.36 bus								
3J	15	8	Husky		H. SOM	MERFEL	D, SHELI	RROOK	49	1 Fd.	
-J		9	Traill	111.6	94			-	50	1 Fd.	
			Parkland	109.9	93		AUT -		51	2 C.W. 6 R. 2 C.W. 6 R.	W.
			Montcalm.		93 93	-		1	50	2 C.W. 6 R.	W.
Necessar	y dif	feren	Yorke—18.87 bi			lay to Au	gust 4.44 in	ches.	52	1 Fd.	
				PAU	L M. HA	NSON. S	PRUCE H	OME	19001011	A SE II TO	ofs
3J	15	9	Husky	. 87.9		_		_	50	1 Fd.	
			Traill	74.5	S Last	WE -NU	10-	1018-31	46	1 Fd.	_
			Parkland Montcalm	74.6		OF THE REAL PROPERTY.	90,708 107	TO LITTLE	51 48	1 C.W. 6 R. 2 C.W. 6 R.	117
			York	76.9	_	_	_		52	1 Fd.	_
Yield dif	feren	ces n	ot significan	t. Rain	fall—May	to August	6.01 inches	s.			
4A	Tes 15	ts dis	scarded on Angeline B	accoun odnarchu	t <b>of dama</b> g k, Foxford.	ge by floo	ding, pest	s, hail, d	rought or	other causes	
H	18.00		Manager 1	W	HEAT I	POOL	DISTRI	CT 16	A mallor	by and	
(4)	1.40	No.	diameter and		WALTER	A. MOSI	IMANN, E		A sation	ar accept	,
3E	16	4	Husky	25.5	WALTER 103	A. MOSI	IMANN, E	<b>DAM</b> 1.0	51	1 Fd.	
3E	16	4	Traill	25.5	WALTER 103 102	A. MOSI 22 24	1.5 1.0	1.0 1.3	49	1 Fd.	
3E	16	4	Traill Parkland	25.5 22.5 23.2	WALTER 103 102 101	A. MOSI 22 24 24 24	1.5 1.0 2.0	1.0 1.3 1.3	49 53	1 Fd.	— W. W.
			Traill Parkland Montcalm York	25.5 22.5 23.2 27.8 31.4	WALTER 103 102 101 105 97	A. MOSI 22 24 24 26 25	1.5 1.0 2.0 2.3 4.0	1.0 1.3 1.3 1.5 3.0	49		
			Traill Parkland Montcalm	25.5 22.5 23.2 27.8 31.4	WALTER 103 102 101 105 97	A. MOSI 22 24 24 26 25	1.5 1.0 2.0 2.3 4.0	1.0 1.3 1.3 1.5 3.0	49 53 51	1 Fd. 2 C.W. 6 R. 2 C.W. 6 R.	
Yield dif	feren	ces n	Traill	25.5 22.5 23.2 27.8 31.4 nt. Rain	WALTER 103 102 101 105 97	22 24 24 26 25 to August	1.5 1.0 2.0 2.3 4.0 3.82 inches	1.0 1.3 1.3 1.5 3.0	49 53 51 53	1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd.	
Yield dif	feren		Traill	25.5 22.5 23.2 27.8 31.4 nt. Rain	WALTER 103 102 101 105 97 fall—May	22 24 24 26 25 to August	1.5 1.0 2.0 2.3 4.0 3.82 inches	1.0 1.3 1.3 1.5 3.0	49 53 51 53	1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd.	
Yield dif	feren	ces n	Traill. Parkland. Montcalm. York. ot significar  Husky Traill. Parkland.	25.5 22.5 23.2 27.8 31.4 nt. Rain	WALTER 103 102 101 105 97 fall—May	22 24 24 26 25 to August	1.5 1.0 2.0 2.3 4.0 3.82 inches	1.0 1.3 1.3 1.5 3.0	49 53 51 53 48 49 51	1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd.	
Yield dif	feren	ces n	Traill. Parkland. Montcalm. York ot significar  Husky Traill. Parkland. Montcalm.	25.5 22.5 23.2 27.8 31.4 nt. Rain	WALTER 103 102 101 105 97 fall—May	22 24 24 26 25 to August	1.5 1.0 2.0 2.3 4.0 3.82 inches	1.0 1.3 1.3 1.5 3.0	49 53 51 53 48 49 51 49	1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R.	
Yield dif	feren	ces n	Traill. Parkland. Montcalm. York. ot significar  Husky. Traill. Parkland. Montcalm. York	25.5 22.5 23.2 27.8 31.4 at. Rain 53.6 46.2 36.5 48.0 41.0	WALTER 103 102 101 105 97 fall—May S. BARRY	A. MOSI  22 24 24 26 25 to August	IMANN, E 1.5 1.0 2.0 2.3 4.0 3.82 inches	1.0 1.3 1.3 1.5 3.0	49 53 51 53 48 49 51	1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd.	
Yield dif	feren	ces n	Traill. Parkland. Montcalm. York ot significar  Husky Traill. Parkland. Montcalm.	25.5 22.5 23.2 27.8 31.4 att. Rain 53.6 46.2 36.5 48.0 41.0 shels. R	WALTER 103 102 101 105 97 fall—May S. BARRY	A. MOSI 22 24 24 26 25 to August 7 BRAUN	MANN, E 1.5 1.0 2.0 2.3 4.0 3.82 inches	1.0 1.3 1.3 1.5 3.0 s.	49 53 51 53 48 49 51 49 44	1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R.	
Yield dif 3E	feren 16 y dif	ces n	Traill Parkland Montcalm York ot significar  Husky Traill Parkland Montcalm York ee—8.04 bus  Husky	25.5 22.5 23.2 27.8 31.4 tt. Rain 53.6 46.2 36.5 48.0 41.0 shels. R	WALTER 103 102 101 105 97 fall—May S. BARRY — — ainfall reco ST F. HA 98	A. MOSI 22 24 24 26 25 to August  BRAUN  Grad incomp	IMANN, E 1.5 1.0 2.0 2.3 4.0 3.82 inches I, BRESA	DAM 1.0 1.3 1.3 1.5 3.0 S.  YLOR	49 53 51 53 48 49 51 49 44	1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 Fd. 1 Fd.	
Yield dif  3E	feren 16 y dif	ces no	Traill Parkland Montcalm York ot significar Husky Traill Parkland Montcalm York e—8.04 bus Husky Traill	25.5 22.5 23.2 27.8 31.4 at. Rain 53.6 46.2 36.5 41.0 shels. R ERNE 36.2 37.7	WALTER 103 102 101 105 97 fall—May S. BARRY — ainfall reco	A. MOSI 22 24 24 26 25 to August 7 BRAUN — — ard incomp NNIS, F: 21	IMANN, F 1.5 1.0 2.0 2.3 4.0 3.82 inches I, BRESA ————————————————————————————————————	EDAM  1.0 1.3 1.3 1.5 3.0  S.  YLOR  1.3 1.3 1.3	49 53 51 53 48 49 51 49 44	1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 2 Fd.	
Yield dif 3E	feren 16 y dif	ces no	Traill Parkland Montcalm York ot significar  Husky Traill Parkland Montcalm York ee—8.04 bus  Husky Traill Parkland Parkland	25.5 22.5 23.2 27.8 31.4 tt. Rain 53.6 46.2 36.5 48.0 41.0 shels. R ERNE 36.2 37.7 35.0	WALTER 103 102 101 105 97 fall—May S. BARRY  ainfall reco ST F. HA 98 94 95	A. MOSI 22 24 24 26 25 to August 7 BRAUN —— ard incomp NNIS, F 21 21 23	IMANN, E 1.5 1.0 2.0 2.3 4.0 3.82 inches I, BRESA ————————————————————————————————————	DAM 1.0 1.3 1.3 1.5 3.0 s.  YLOR  1.3 1.3 1.3 1.3	49 53 51 53 48 49 51 49 44 <b>FE</b> 48 47 49	1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 2 Fd.	
Yield dif 3E Necessar 4B	feren 16 y dif	5 ference 7	Traill Parkland Montcalm York ot significar  Husky Traill Parkland Montcalm York ee—8.04 bus  Husky Traill Parkland Montcalm York York York York Wontcalm York York	25.5 22.5 23.2 27.8 31.4 att. Rain 53.6 48.0 41.0 shels. R ERNE 36.2 37.7 35.0 39.4	WALTER 103 102 101 105 97 fall—May S. BARRY — ainfall reco ST F. HA 98 94 95 96 95	A. MOSI 22 24 24 26 25 to August 7 BRAUN ————————————————————————————————————	IMANN, E 1.5 1.0 2.0 2.3 4.0 3.82 inches I, BRESA  ———————————————————————————————————	DAM 1.0 1.3 1.3 1.3 1.5 3.0 s.  YLOR 1.3 1.3 1.3 1.3 1.3 1.3 1.3	49 53 51 53 48 49 51 49 44	1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 Fd. 1 Fd.	
Yield dif 3E Necessar 4B	feren 16 y dif	5 ference 7	Traill Parkland. Montcalm. York York Husky Traill Parkland Montcalm. York 20 Husky Traill Husky Traill Parkland Montcalm. Montcalm. Montcalm.	25.5 22.5 23.2 27.8 31.4 att. Rain 53.6 48.0 41.0 shels. R ERNE 36.2 37.7 35.0 39.4	WALTER 103 102 101 105 97 fall—May S. BARRY — ainfall reco ST F. HA 98 94 95 96 95	A. MOSI 22 24 24 26 25 to August 7 BRAUN ————————————————————————————————————	IMANN, E 1.5 1.0 2.0 2.3 4.0 3.82 inches I, BRESA  ———————————————————————————————————	DAM 1.0 1.3 1.3 1.3 1.5 3.0 s.  YLOR 1.3 1.3 1.3 1.3 1.3 1.3 1.3	49 53 51 53 51 53 48 49 51 49 44 47 48 47 49 47	1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 2 Fd. 1 Fd. 2 C.W. 6 R. 2 Fd.	
Yield dif 3E Necessar 4B	16  16  16  16	ference 7	Traill Parkland. Montcalm. York. Traill Parkland. Montcalm. York. Husky. Traill Parkland. Husky. Traill Parkland. Montcalm. York. Parkland. Montcalm. York. Parkland. Montcalm. York. Parkland.	25.5 22.5 23.2 27.8 31.4 at. Rain 53.6 46.2 36.5 48.0 41.0 shels. R <b>ERNE</b> 36.2 37.7 35.0 39.4 49.1 lels. Rain	WALTER 103 102 101 105 97 fall—May S. BARRY  ainfall reco ST F. HA 98 94 95 96 96 nfall—May RALPH A	A. MOSI 22 24 26 25 to August  BRAUN  Right incomp  NNIS, F 21 21 23 25 7 to August  KYLE	IMANN, E 1.5 1.0 2.0 2.3 4.0 3.82 inches I, BRESA  Glete.  RENCHM 2.3 1.3 1.8 2.5 3.8 st 5.22 inch DORINT	DAM 1.0 1.3 1.3 1.3 1.5 3.0 s.  YLOR 1.3 1.3 1.3 2.3 1.8 es.	49 53 51 53 48 49 51 49 44 47 47 51	1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 2 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 Fd.	
Yield dif 3E Necessar 4B	16  16  16  16	5 ference 7	Traill Parkland. Montcalm. York.  Husky. Traill Parkland. Montcalm. York. e-8.04 bus  Husky. Traill Parkland. Montcalm. York. e-5.76 bush	25.5 22.5 23.2 27.8 31.4 at. Rain 53.6 46.2 36.5 48.0 41.0 shels. R ERNE 36.2 37.7 35.0 39.4 49.1 lels. Rain	WALTER 103 102 101 105 97 fall—May S. BARRY  ainfall reco ST F. HA 98 94 95 96 96 nfall—May RALPH A	A. MOSI 22 24 24 26 25 to August 7 BRAUN — — ard incomp NNIS, F. 21 21 23 25 7 to Augus A. KYLE 26	IMANN, E 1.5 1.0 2.0 2.3 4.0 3.82 inches I, BRESA — ——————————————————————————————————	EDAM 1.0 1.3 1.3 1.5 3.0 3.  YLOR  1.3 1.3 1.3 1.3 2.3 1.8 es.	49 53 51 53 51 53 48 49 51 49 44 44 FE 47 51	1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 2 Fd. 1 Fd. 2 C.W. 6 R. 2 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd.	
Yield dif 3E Necessar 4B	16  16  16  16	ference 7	Traill Parkland Montcalm York ot significar Husky Traill Parkland Montcalm York e=8.04 bus Husky Traill Parkland Montcalm York e=5.76 bush Husky Traill	25, 5 22, 5 23, 2 27, 8 31, 4 41, Rain 53, 6 46, 2 36, 5 48, 0 41, 0 8hels. R ERNE 36, 2 37, 7 35, 0 39, 4 49, 1 lels. Rai	WALTER 103 102 101 105 97 fall—May S. BARRY  ainfall reco ST F. HA 98 94 95 96 96 96 91 95 nfall—May	A. MOSI 22 24 26 25 to August 7 BRAUN 21 21 21 23 25 7 to Augus 4. KYLE, 26 27	IMANN, E 1.5 1.0 2.0 2.3 4.0 3.82 inches I, BRESA   dete.  RENCHM 2.3 1.8 2.5 3.8 st 5.22 inch DORINT 1.3 1.0	EDAM 1.0 1.3 1.3 1.3 1.5 3.0 s.  YLOR  1.3 1.3 1.3 2.3 1.8 es.	49 53 51 53 51 53 48 49 51 49 44 47 47 47 51	1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 2 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 Fd.	
Yield dif 3E Necessar 4B	16  16  16  16	ference 7	Traill Parkland. Montcalm. York.  Husky. Traill. Parkland. Montcalm. York. Parkland. Montcalm. York. Parkland. Husky. Parkland. Husky. Traill. Parkland. Husky. Traill. Parkland. Husky. Parkland. Husky. Parkland. Parkland.	25.5 22.5 23.2 27.8 31.4 at. Rain 53.6 46.2 36.5 48.0 41.0 shels. R ERNE 36.2 37.7 35.0 49.1 els. Rain	WALTER 103 102 101 105 97 fall—May  S. BARRY  ainfall reco ST F. HA 98 94 95 96 nfall—May  RALPH A 93 90 90	A. MOSI 22 24 26 25 to August 7 BRAUN —— and incomp NNIS, F 21 21 23 25 7 to Augus A. KYLE, 26 27 27	IMANN, E 1.5 1.0 2.0 2.3 4.0 3.82 inches I, BRESA	EDAM 1.0 1.3 1.3 1.5 3.0 6.  YLOR 1.3 1.3 1.3 1.3 1.3 1.8 es.	49 53 51 53 51 53 48 49 51 49 44 44 47 47 51	1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 2 Fd. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 Fd.	
Yield dif 3E Necessar 4B	16  16  16  16	ference 7	Traill Parkland Montcalm York ot significar Husky Traill Parkland Montcalm York e=8.04 bus Husky Traill Parkland Montcalm York e=5.76 bush Husky Traill	25. 5 22. 5 23. 2 27. 8 31. 4 att. Rain 53. 6 46. 2 36. 5 48. 0 41. 0 ERNE 36. 2 37. 7 35. 0 39. 4 49. 1 lels. Rai	WALTER 103 102 101 105 97 fall—May S. BARRY  ainfall reco ST F. HA 98 94 95 96 96 96 91 95 nfall—May	A. MOSI 22 24 26 25 to August 7 BRAUN 21 21 21 23 25 7 to Augus 4. KYLE, 26 27	IMANN, E 1.5 1.0 2.0 2.3 4.0 3.82 inches I, BRESA   dete.  RENCHM 2.3 1.8 2.5 3.8 st 5.22 inch DORINT 1.3 1.0	EDAM 1.0 1.3 1.3 1.3 1.5 3.0 s.  YLOR  1.3 1.3 1.3 2.3 1.8 es.	49 53 51 53 51 53 48 49 51 49 44 47 47 47 51	1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 1 Fd. 1 Fd. 2 C.W. 6 R. 2 C.W. 6 R. 2 Fd. 1 Fd. 2 C.W. 6 R. 2 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd.	

# RAPE TESTS

For the first time in 1958 a rape testing project was undertaken on an experimental basis. A total of 32 rape tests were seeded. Each test contained the five varieties, Golden, Regina II, R-5, Arlo and Polish. Tests were located throughout the province on the basis of two in each Wheat Pool district. As a result, some rape tests were located in areas where little or no rape can be expected to be grown as a crop. However, it is hoped that the results of these tests will serve to show the differences between varieties of rape and also the effect of different growing conditions on the characteristics of the varieties. The location of the individual rape tests is shown on the map on page 5.

#### DESCRIPTION OF VARIETIES

Two distinct types of rape were included in these tests. Three of the varieties tested were of the Argentine type and the remaining two were of the Polish type.

### Varieties of the Argentine Type

Varieties of this type are considerably later in maturity than those of the Polish type. They are taller growing, and have smooth, blue-green leaves. The seed of these varieties is larger than that of the Polish types.

Golden—Was developed at the Dominion Forage Crops Laboratory, Saskatoon. It is a licensed variety in Canada.

Regina II—Was developed at the Swedish Seed Association, Svalof, Sweden. It resembles Golden in appearance.

 $\ensuremath{\text{\textbf{R-5}}}\xspace$  —This is a code number for an unlicensed selection of the Argentine type.

### Varieties of the Polish Type

These varieties are quite early in maturity, have green crinkled leaves and small seeds.

 ${\bf Polish}{\bf -T}{\bf r}{\bf a}{\bf c}{\bf e}{\bf s}{\bf d}{\bf k}$  to seed imported from Europe. It was the first variety to be grown in Saskatchewan.

Arlo—Was developed by the Swedish Seed Association, Svalof, Sweden. It is similar to Polish in appearance. Arlo was licensed in Canada in 1958 but seed will not be generally available until 1960.

#### INTERPRETATION OF RESULTS

In addition to the usual calculation of yield, time of ripening, plant height, bushel weight, etc., seed samples from the tests were subjected to laboratory analysis to determine a number of factors which affect the industrial uses of rape seed oil. A brief outline of the tests conducted and the interpretation of the results follows:

Percentage of Oil—Rape seed oil is the primary product of this crop, so the value of the seed is in direct proportion to the amount of oil which can be extracted from it. For the information of readers interested in the method of analysis, the oil was solvent extracted with Petroleum Ether from a sample of ground seed.

Percentage of Protein—Rape seed meal is a byproduct of the extraction of oil from the seed. This meal is used as a protein supplement in certain livestock feeds. The value of the meal is in direct proportion to its protein content.

Iodine number—Rape seed oil is used by industry for a variety of products. For some of these it is used in the form of an oil which is processed directly. For other uses it must first be chemically treated, (hydrogenated) to convert the oil to a solid fat. The amount of hydrogen required to bring about this conversion varies, depending on the chemical composition

of the oil sample. The iodine number of an oil sample is simply an indicator of the degree of treatment required to convert the oil into a solid fat. An oil sample with a high iodine number requires more processing than does one with a lower iodine number. Thus, for an industrial use which requires an oil the processor would prefer a sample with a high iodine number. Conversely for a use which requires a solid fat, the processor would prefer a sample with a low iodine number.

#### SUMMARY OF RESULTS BY AREAS

Because of the small number of rape tests conducted in 1958, it was not possible to obtain detailed information from each Cereal Variety Zone. However, a summary has been made by combining the results of those tests located in several zones in which growing conditions are generally similar. In most cases the tests located in each of these areas produced similar results. Some areas of the province are not represented in this report because the tests located in them were destroyed during the growing season by frost, drought, insects or other causes.

The year 1958 was generally not a favorable one for rapeseed, and since only one year's results are available in this report, they should be considered with some caution. Because of the lack of moisture in many areas, the oil content of the seed was rather low, while the protein content was fairly high. In these tests the early varieties Arlo and Polish generally outyielded the later varieties. However, this may have been due to the early maturity of these varieties which enabled them to avoid some of the effects of lack of moisture. Because of these unusual conditions it is difficult to obtain an accurate assessment of the varieties based only on the one year's results.

TABLE No. 64-SOUTHWEST AREA (Cereal Variety Zones 1A, 1B, 1C, 1D)

	Regina II	R-5	Arlo	Polish
543	525	621	866	812
				95
				22.2
				53 33.4
				41.2
98	103	103	106	103
	543 110 24.7 52 32.8 46.4 98	110 112 24.7 23.7 52 52 32.8 31.7 46.4 45.6	110 112 110 24.7 23.7 24.0 52 52 53 32.8 31.7 32.2 46.4 45.6 46.8	110 112 110 94 24.7 23.7 24.0 22.7 52 52 53 53 32.8 31.7 32.2 33.0 46.4 45.6 46.8 43.1

The two early maturing varieties, Arlo and Polish outyielded the other varieties by a fairly substantial margin in this area in 1958. They were considerably earlier in maturity and several inches shorter in growth. Arlo, Polish and R-5 were equal in bushel weight and were, on the average, a pound heavier than Golden and Regina II. In this area, where dry conditions prevailed during the summer, all varieties were fairly low in oil content. Polish ranked first



Wheat Pool committee men and shareholders at Spruce Home took a keen interest in Bryce Belt's rape test. Some of them are shown at a gathering held at the test.

with an average of 33.4%. It was followed by Arlo, Golden, R-5 and Regina II in that order. The analysis for protein placed the varieties in quite a different order. The three late maturing varieties, R-5, Golden and Regina II were relatively high in protein with 46.8%, 46.4% and 45.6% respectively. Arlo and Polish were both lower with 43.1% and 41.2% respectively. The results of the test involving the iodine number indicate that in this area Arlo had the highest iodine number. Polish, Regina II and R-5 all rated equal with a reading of 103. Golden had the lowest iodine number with a reading of 98.

TABLE No. 65-SOUTHEAST AREA (Cereal Variety Zones 2A and 2E)

	Golden	Regina II	R-5	Arlo	Polish
Yield in pounds per acre	223	213	237	484	373
Days from seeding to ripening		110	109	94	95
Height of plants in inches		14.0	13.0	15.0	17.0
Bushel weight in pounds		49	49	52	54
Percentage of oil in seed	31.9	31.2	49 30.5	32.4	31.2
Percentage of protein in meal		46.6	46.3	41.8	40.2
Iodine number*	101	106	104	106	99

In this area the early maturing varieties Arlo and Polish yielded considerably more than the three later varieties. Due to lack of moisture all varieties were rather short, but Polish and Arlo were slightly taller on an average basis. The samples of Polish averaged highest in bushel weight and Arlo placed second. The samples of the three remaining varieties were somewhat lighter. The percentage of oil obtained from all samples in this area was quite low, possibly due to the lack of moisture during the growing season. There was less than 2% difference between the variety having the highest oil content (Arlo) and that with the lowest (R-5). In protein content the three later varieties Golden, Regina II and R-5 were quite similar with less than one-half of one per cent difference among them. Arlo and Polish were considerably lower in protein content with 41.8% and 40.2% respectively. Arlo and Regina II showed equal iodine numbers in this area where both showed a reading of 106. R-5 was slightly lower with a reading of 104, followed by Golden and Polish with 101 and 99 respectively.

TABLE No. 66—CENTRAL AND WEST-CENTRAL AREA (Cereal Variety Zones 2B and 2D)

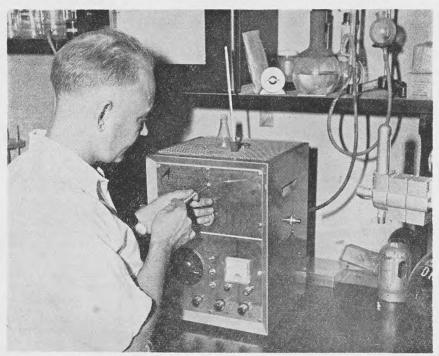
	Golden	Regina II	R-5	Arlo	Polish
Yield in pounds per acre	524	487	431	695	606
Days from seeding to ripening		. 111	110	86	84 23.0
Height of plants in inches	29.0	31.0	27.3	24.0	23.0
Bushel weight in pounds	51	52	51	54 33.6	54 33.7
Percentage of oil in seed	37.1	34.7	34.8		33.7
Percentage of protein in meal	46.5	43.3	45.0	42.6	41.7
Iodine number*	102	106	107	106	104
-See "Interpretation of Results" on page 76.					

In this area Arlo and Polish placed first and second respectively in yield. Golden placed third, Regina II placed fourth and R-5 placed fifth. Arlo and Polish were quite similar in time of maturity and they were on the average, more than three weeks earlier than the remaining three varieties. They were also several inches shorter on the average than the later varieties. Arlo and Polish were equal in bushel weight with an average weight of 54 pounds. Regina II was slightly lower with 52 pounds per bushel. Golden and R-5 both weighed 51 pounds per measured bushel. The percentage of oil obtained from this area was considerably higher than that obtained from the areas discussed previously. Golden ranked first in this area with an average of 37.1% oil, R-5 and Regina II were quite similar with 34.8% and 34.7% respectively. The two early varieties, Polish and Arlo yielded less oil than the other varieties, averaging 33.7% and 33.6% respectively. Protein content of the samples in this area was quite high. Golden, with an average protein content of 46.5% ranked first in the area. The other varieties placed in the following order: R-5, Regina II, Arlo and Polish. R-5 had the highest iodine number on the average in this area. Regina II and Arlo both showed readings of 106. Polish had an average reading of 104 and Golden was lowest with a reading of 102.

TABLE No. 67-EAST CENTRAL AREA (Cereal Variety Zones 3A and 3B

	Golden	Regina II	R-5	Arlo	Polish
Yield in pounds per acre	273	284	272	451	493
Days from seeding to ripening		125	123	95	94
Height of plants in inches		24	23	22	22
Bushel weight in pounds	51	51	51	52	53
Percentage of oil in seed	35.8	36.3	34.8	31.5	30.6
Percentage of protein in meal	49.1	45.9	46.2	42.3	40.4
Iodine number*	102	105	107	106	102

Polish and Arlo outyielded the three late maturing varieties by a substantial margin in this area in 1958. On an average basis there was little difference in the yields of the other three varieties. In time of maturity the varieties differed widely, with Arlo and Polish maturing quite early and the remaining three varieties averaging about four weeks later. There was no significant difference in height of the five varieties in this area. Polish outweighed the other varieties in this area with an average bushel weight of 53 pounds. Arlo was slightly lower with an average weight of 52 pounds. The remaining three varieties were equal with an average bushel weight of 51 pounds each. Regina II contained the highest percentage of oil of the five varieties in this area. The average oil content of this variety was 36.3%. Golden was only slightly lower with 35.8%, and R-5 placed third with 34.8%. The two early maturing varieties Arlo and Polish yielded considerably less oil, testing 31.5% and 30.6% respectively. Golden, with a protein content of 49.1% exceeded the other varieties by a considerable margin. R-5 placed second with 46.2% protein, and Regina II placed third with 45.9%. The varieties Arlo and Polish were notably lower in protein content with 42.3% and 40.4% respectively. R-5 showed the highest iodine number, on the average, in this area. Arlo placed second and Regina II placed third on an average basis. Golden and Polish were lower than the other three varieties and both gave an average reading of 102.



This laboratory equipment is used in the analysis of rapeseed and linseed oils.

TABLE No. 68-NORTHEAST AREA (Cereal Variety Zones 3D and 3F)

Golden	Regina II	R-5	Arlo	Polish
1259	1178	1211	1280	1128
		117	95	95
31	31	33	28	26
50	51	51	53	53 39.3
44.1	42.6	42.1	38.0	39.3
	37.9	39.7	37.3	36.7
101	103	103	106	104
	1259 118 31 50 44.1 40.7	1259 1178 118 121 31 31 50 51 44.1 42.6 40.7 37.9	1259 1178 1211 118 121 117 31 31 33 50 51 51 44.1 42.6 42.1 40.7 37.9 39.7	1259 1178 1211 1280 118 121 117 95 31 31 33 28 50 51 51 53 44.1 42.6 42.1 38.0 40.7 37.9 39.7 37.3

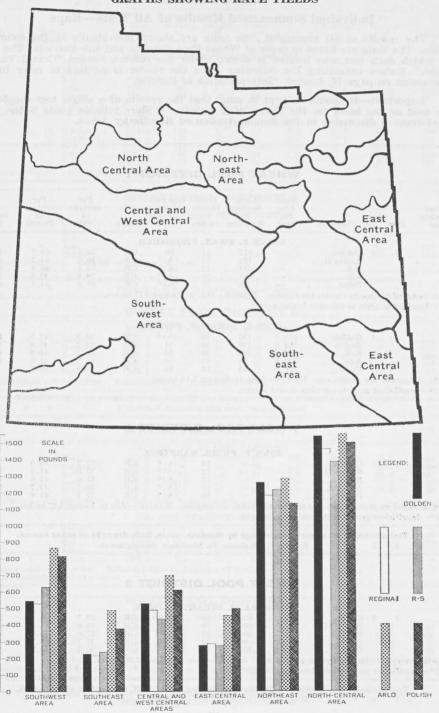
Arlo, Golden and R-5 placed first, second and third respectively in yield in this area but it should be noted that there were only slight differences among them. Regina II and Polish placed fourth and fifth respectively and both were somewhat lower in yield than the three preceding varieties. As in the areas discussed previously, there was a considerable difference in time of maturity between the early varieties Arlo and Polish and the later varieties Golden, Regina II and R-5. In this area the difference was approximately three weeks. The early varieties were somewhat shorter in height. The average bushel weights in this area show that Arlo and Polish were equal, Regina II and R-5 were also equal and slightly lower in weight, while Golden ranked fifth of the five varieties. All the varieties in this area produced a high oil content. Golden ranked first with 44.1%, Regina II placed second with 42.6% and R-5 placed third with 42.1%. Polish and Arlo produced somewhat less oil, yielding 39.3% and 38.0% respectively. The protein content of all the varieties in this area was lower than in the areas discussed previously. Golden, with an average of 40.7% placed first in this area. R-5 placed second with an average of 39.7%. Regina II, Arlo and Polish placed third, fourth and fifth respectively. The analysis for iodine number showed that Arlo had the highest number with an average of 106. It was followed by Polish with a reading of 104. Regina II and R-5 gave equal readings of 103, and Golden placed fifth with a reading of 101.

TABLE No. 69-NORTH CENTRAL AREA (Cereal Variety Zones 3G and 3J)

	Golden	Regina II	R-5	Arlo	Polish
Yield in pounds per acre	1538	1457	1380	1548	1495
Days from seeding to ripening	116	116	116	102	100
Height of plants in inches	30	31	28	23	23
Bushel weight in pounds	51	52	51	53	23 53
Percentage of oil in seed	37.7	41.1	39.9	35.4	33.5
Percentage of protein in meal	44.9	43.4	41.0	41.0	39.8
Iodine number*	101	104	106	106	103

As might be expected, the average yields in this area were considerably higher than those in other areas of the province. All varieties yielded well and there were no great differences in yield among the varieties. As in the other zones the two early maturing varieties were quite similar in time of maturity. They were about two weeks earlier than the three remaining varieties. Arlo and Polish were noticeably shorter in height than the other three varieties. The average bushel weights of Arlo and Polish were equal in this area. Regina II was slightly lighter with an average of 52 pounds. Golden and R-5 each showed an average weight of 51 pounds. On an average basis, Regina II showed the highest oil content in this area. R-5, with 39.9% oil placed second, Golden placed third in this area with 37.7% while Arlo and Polish placed fourth and fifth with 35.4% and 33.5% respectively. The average protein content of all varieties in this area was somewhat lower than that in most other areas in the province. Golden contained the highest percentage on an average basis, with a reading of 44.9%. Regina II placed second with an average protein content of 43.4%. R-5 and Arlo rated equal on an average basis with a protein content of 41%. Polish ranked fifth with 39.8% protein. The calculation of iodine number shows that R-5 and Arlo each had a reading of 106. Regina II showed a reading of 104, while Polish and Golden showed readings of 103 and 101 respectively.

#### GRAPHS SHOWING RAPE YIELDS



# Individual Summarized Results of All Tests-Rape

The results of all successful rape tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 76, headed, "Interpretation of Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization of Results by Areas.

### WHEAT POOL DISTRICT 1

Cereal Variety Zone	Dist.	Sub. Dist.		Yield Lbs. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Lbs. per Meas- ured Bushel	Grade	Per centage of Oil	Per centage of Protein	Iodine No.
				BRU	JCE E. EV	VAN, F	ROBISHE	ER			
3A	1		Golden Regina II R-5 Arlo Polish	=======================================	122 122 121 97 96	23 23 22 15 17	50 (A)* (A)* (A)* (A)*	CR CR CR CR	34.1 36.2 33.1 29.6 29.0	49.7 44.7 46.4 43.8 44.2	104 104 107 103 106
			ects—yields not n to calculate b			—May t	o August 3	3.17 inche	s.		
				ALL	EN E. JO	HNSON	, TRIBUI	NE			
2A	1		Golden Regina II R-5 Arlo	129.7 164.6 208.2 530.9 391.3	110 110 109 94 95	10 10 10 10	(A)* 51 52 54 54	CR CR CR CR	28.3 28.2 29.2 30.7 29.9	47.7 45.8 46.5 41.2 40.7	100 106 102 106 99
			Polish								

### WHEAT POOL DISTRICT 2

				JOH	V P. PI	CHE, HA	ARPTRE	E			
1A	2	11	Golden			14	(A)*	CR	32.2	48.0	95
			Regina II			12	(A)*	CR	32.0	45.3	100
			R-5		-	12	(A)*	CR	32.6	46.9	103
			Arlo		-	10	(A)*	CR	28.7	43.7	108
			Polish	_		10	(A)*	CR	32.3	43.9	106

Test damaged by grasshoppers and shattering—yields not reliable. Rainfall—May to August 3.57 inches. (A)\*—Insufficient grain to calculate bushel weight.

### WHEAT POOL DISTRICT 3

		BARB	ARA M.	STUAR	T, CLIM	AX			
3	Golden		104	20	(A)*	CR	29.2	48.4	100
	Regina II		105	19	(A)*	CR	26.0	44.6	107
	R-5	_	104	23	(A)*	CR	27.6	48.0	105
	Arlo	_	99	20	53	CR	31.7	46.7	106
	Polish		101	19	53	CR	30.2	43.9	106
	3	Regina II R-5 Arlo	3 Golden — Regina II — R-5 — Arlo —	3 Golden	3 Golden — 104 20 Regina II — 105 19 R-5 — 104 23 Arlo — 99 20	3 Golden — 104 20 (A)* Regina II — 105 19 (A)* R-5 — 104 23 (A)* Arlo — 99 20 53	Regina II — 105 19 (A)* CR R-5 — 104 23 (A)* CR Arlo — 99 20 53 CR	3 Golden	3 Golden

Unsatisfactory germination—yields not reliable. Rainfall—May to August 2.80 inche (A)\*—Insufficient grain to calculate bushel weight.

### WHEAT POOL DISTRICT 4

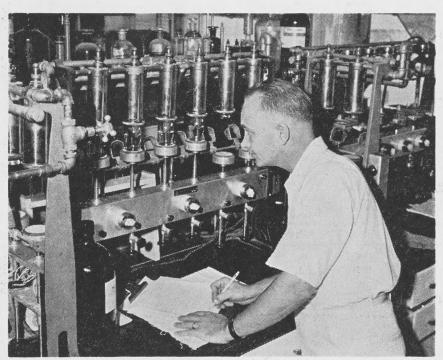
Cereal Variety Zone	Dist.	Sub.	. Varieties	Yield Lbs. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Lbs. per Meas- ured Bushel	Grade	Per centage of Oil	Per centage of Protein	Iodine No.
Jone	Dist.	D 15t.			G. THARE				Oli	rioteni	140.
B	. 4	2	Golden	- CACA	. IHAKI		DEN TR.	—			
			Regina II		-		-			_	
4,			ArloPolish	517.5 554.2	85 84	33 34	53 53	CR CR	31.6 33.6	42.3 43.8	106 103
Golden, R	egina	II an	d R-5 destroye	d by inse	ects. Rain	fall recor	d incomp	lete.			
10	1590	10	Caldan	MILTO	N D. BRA	ATEN,	SHACKL	ETON	21.5	12.1	100
1B	. 4	10	Golden Regina II	654.2 724.0	114 114	21 20	53 52	CR	31.5 32.1	43.1 46.6	100
			R-5 Arlo	783.9 1065.9	114 89	20	53	CR	32.7 34.2	47.5 43.4	101 106
Massassann	d:ffor	00000	Polish	1014.7	6011 Mary	20	54	CR	31.9	39.9	101
	differ	ence-	—161.37 pound	is. Kain	fall—May	to Augu	st 5.34 inc	cnes.			
106				WHE	AT PO	OL DI	STRIC	T 5			
				ETH	EL M. TA	LBOT, I	ETTINGT	ON		20.002	
1A	. 5	1	Golden Regina II	=	772		= ;		=		_
			R-5 Arlo	_		_	54	CR	31.6	43.0	105
Yields not	eatiof	actor	Polish	record in	complete	-	56	CR	29.6	39.9	106
i icius iloi	-	-				floo 31.	noct- 1	noil 3-			
1A		11sca 5	rded on acco		A. Gross, H				ugnt or oti	ier causes.	
				WILLE	AT DO	OL DI	CTDIO	T. C			
				WIL	AT PO	OL DI	SIKIU	1 6			
25	6	5	Colden	<b>KENN</b> 315.8	ETH F. M	IcKENZ	49	2 CR	35.4	15 3	102
2E	. 0	,	Golden Regina II	260.5	_	18	49	2 CR	34.1	45.3 47.3	106
			R-5 Arlo	264.6 436.1	_	16 20	49 52	2 CR CR	31.8 34.1	46.0 42.4	106 105
Vield diff	erences	not	Polishsignificant. F	353.6	May to A	24	54 Sinches	CR	32.4	39.6	99
Ticia airi			rded on acco					nail dro	ught or oth	er causes	
					manage as				mBare or ore		
3C		9		Kenneth	F. Gibbens	s, Daicaii	es, Saskat	ciic waii.			
3C					F. Gibbens						
3C				WHE		OL DI	STRIC	T 7			
3C	. 6		Golden	WHE  ROE  482.6	EAT PO BERT W. 135	OL DI	STRIC FLEMII	T 7	40.5	46.6	101
· ·	. 6	9	Golden	WHE ROE 482.6 536.7	EAT PO BERT W. 135 138 133	OL DI CLARK, 24 24 24 24	<b>STRIC FLEMI</b> 51  51  51  51	CR CR CR CR	40.5 39.4	46.6 43.2 42.3	101 104 105
	. 6	9	Golden Regina II R-5	ROE 482.6 536.7 487.3 581.5	EAT PO BERT W. 135 138	OL DI	STRIC FLEMII	NG CR CR	40.5	46.6 43.2	101
3B	. 7	2	Golden	ROE 482.6 536.7 487.3 581.5 700.7	EAT PO BERT W. 135 138 133 113 113	CLARK, 24 24 24 27 27	STRIC FLEMIN 51 51 51 51 53 53	CR CR CR CR CR	40.5 39.4 35.0	46.6 43.2 42.3 39.2	101 104 105 105
3B	. 7	9 2 3 not	Golden	ROE 482.6 536.7 487.3 581.5 700.7 Rainfall—	EAT PO BERT W. 135 138 133 113 113	CLARK, 24 24 24 27 27 27 1gust 6.0°	51 51 51 53 53 7 inches.	CR CR CR CR CR	40.5 39.4 35.0	46.6 43.2 42.3 39.2	101 104 105 105
3B	. 7	9 2 3 not	Golden Regina II R-5 Arlo Polish significant. R	ROE 482.6 536.7 487.3 581.5 700.7 Rainfall—	EAT PO BERT W. 135 138 133 113 113 May to Au ROY ST.	CLARK, 24 24 24 27 27 27 27 28 28 29 20 21 22 24 24 27 27 27 27 27 27 27 27 27 27	51 51 53 53 7 inches.	CR CR CR CR CR	40.5 39.4 35.0 34.5	46.6 43.2 42.3 39.2 35.8	101 104 105 105 98
3BYield diffe	. 7	9 2 3 not	Golden	ROE 482.6 536.7 487.3 581.5 700.7 Rainfall— A. 159.9 196.5 115.1	EAT PO  BERT W.  135 138 133 113 113 114 PMay to Au  ROY ST.  119 119	CLARK, 24 24 27 27 1gust 6.0° ANLEY, 22 23 21	51 51 53 53 7 inches.  BARING 50 50 51	CR CR CR CR CR CR CR	40.5 39.4 35.0 34.5	46.6 43.2 42.3 39.2 35.8	101 104 105 105 98
3BYield diffe	. 7	9 2 3 not	Golden	ROE 482.6 536.7 487.3 581.5 700.7 Rainfall—A. 159.9 196.5	EAT PO BERT W. 138 138 133 113 113 May to Au ROY ST. 119	CLARK, 24 24 24 27 27 27 algust 6.0° ANLEY, 22 23	5TRIC 51 51 53 53 7 inches.  BARING 50	CR CR CR CR CR	40.5 39.4 35.0 34.5	46.6 43.2 42.3 39.2 35.8	101 104 105 105 98
3BYield diffe	. 7 erences	9 2 anot :	Golden	ROE 482.6 536.7 487.3 581.5 700.7 cainfall— A. 159.9 196.5 115.1 238.4 254.7 infall—N	135 138 133 113 113 May to At ROY ST. 119 119 119 83 83	CLARK, 24 24 27 27 27 27 24 28 29 29 29 29 29 29 29 29 29 29 29 29 29	51 51 53 53 7 inches.  BARING 50 50 51 51 52	CR C	40.5 39.4 35.0 34.5	46.6 43.2 42.3 39.2 35.8	101 104 105 105 98
3BYield diffe	. 7 erences	9 2 anot :	Golden	**Note	EAT PO DERT W.  135 138 133 113 113 -May to Au  ROY ST 119 119 119 119 83 83 May to Aug	OL DI CLARK, 24 24 27 27 27 29 21 22 23 21 19 18 (ust 4.67)	\$\frac{\fin}}}}}}}{\frac{\fir}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{	CR C	40.5 39.4 35.0 34.5	46.6 43.2 42.3 39.2 35.8	101 104 105 105 98
3BYield diffe	. 7 erences	9 2 anot :	Golden	**************************************	EAT PO EERT W. 135 138 133 113 113 May to Au ROY ST 119 119 83 83 May to Aug	OL DI CLARK, 24 24 27 27 27 27 28 21 19 18 sust 4.67	### STRICE    FLEMII	CR C	40.5 39.4 35.0 34.5	46.6 43.2 42.3 39.2 35.8	101 104 105 105 98
3BYield diffe	. 7 erences	2 c not 6	Golden	WHE  ROE 482.6 536.7 487.3 581.5 70.7 Rainfall A. 159.9 196.5 115.1 238.4 254.7 infall—N  WHE	EAT PO BERT W. 135 138 133 113 113 PMay to Au ROY ST. 119 119 83 83 May to Aug	OL DI  CLARK, 24 24 27 27 27 29 21 21 21 21 21 22 23 21 21 20 CL DI  VAGNEF	### STRICE    FLEMII	CR C	35.0 34.5 35.0 34.5	46.6 43.2 42.3 39.2 35.8 46.7 48.6 43.7	101 104 105 105 98 
3BYield diffe	. 7 erences	2 c not 6	Golden	WHE  ROE 482.6 536.7 487.3 581.5 700.7 tainfall—  159.9 196.5 115.1 238.4 254.7 inifall—N  WHE  MURE 176.2 118.0	EAT PO BERT W. 135 138 133 113 113 -May to Au ROY ST. 119 119 83 83 May to Aug	OL DI  CLARK, 24 24 27 27 27 27 28 21 29 21 19 18 30st 4.67	\$\frac{\finte}{\frac{\finte}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\finte}}}}{\frac}\fir\f{\frac{\frac{\fin}}}{\fint}}}}}}}{\frac{\frac{\frac{\frac{\fir\fir}{\firin}}}}{\firac{\firint{\frac{\frac{\fir\fir}}}{\fir\firc{\firintet	CR C	35.1 33.0 34.5 35.1 35.1 33.0 30.8	46.6 43.2 42.3 39.2 35.8 46.7 48.6 43.7	101 104 105 105 98 109 108 103
3BYield diffe	. 7 erences	2 c not 6	Golden	WHE  ROE 482.6 536.7 487.3 581.5 700.7 Rainfall  A. 159.9 196.5 115.1 238.4 infall  WHE  MURE 176.2 118.0 214.0	EAT PO EERT W. 135 138 133 113 113 May to Au ROY ST. 119 119 83 83 May to Aug	OL DI CLARK, 24 24 27 27 27 28 29 21 19 18 21 18 CLARK, 24 27 27 27 CLARK, 27 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	\$\frac{51}{51} \\ 51\\ 51\\ 53\\ 7 \text{ inches.}  \text{BARING} \\ 50\\ 50\\ 50\\ 51\\ 51\\ 51\\ 52\\ inches.  \$\frac{50}{50} \\ 51\\ 52\\ inches.  \$\frac{50}{50} \\ 60\\ \$\frac{50}{50} \\ 51\\ 52\\ inches.	CR C	35.1 33.0 34.5 35.1 33.0 30.8	46.6 43.2 42.3 39.2 35.8 46.7 48.6 43.7	101 104 105 105 98 
3BYield diffi	. 7	2 c not 6	Golden	WHE  ROE 482.6 536.7 487.3 581.5 700.7 tainfall—  159.9 196.5 115.1 238.4 254.7 ininfall—N .  WHE  MURE 176.2 118.0 214.0 532.1	EAT PO BERT W.  135 138 133 113 113 -May to Au  ROY ST. 119 119 83 83 May to Aug  EAT PO  RAY W. V. 120 120 85 85	OL DI  CLARK, 24 24 27 27 27 27 28 29 21 19 18 21 21 21 21 21 21 22 23 21 21 24 26 26 28 27	\$\frac{\finte}{\frac{\finte}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\finte}}}}{\frac}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir\fir}}{\firinte\fir\frac{\fir\firce{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\	CR C	35.1 33.0 34.5 35.0 34.5 35.1 33.0 30.8 32.7 32.2 31.8	46.6 43.2 42.3 39.2 35.8 46.7 48.6 43.7	101 104 105 105 98 109 108 103 —

## WHEAT POOL DISTRICT 9

			WILE	AT PO	OL D	SIKIC	119			
Cereal Variety Zone Dist.	Sub.	Varieties	Yield Lbs. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Lbs. per Meas- ured Bushel	Grade	Per centage of Oil	Per centage of Protein	Iodine No.
2B 9	4	Golden Regina II	BRIAN 844.9 815.8	A. MeKI 109 109	ENZIE, 36 35	51 52	OURG CR CR	33.0 33.3	49.4 47.7	104 107
Yield difference	n not	R-5	693.7 796.7 626.9	109 77 77	35 32 27	50 55 55 Sinches	CR CR CR	28.8 ory results in	48.1 40.9	100
		arded on accou								
3C 9	9			iciuk, Wish						
			WHE	AT POO	DL DI	STRIC	T 10			
2B 10  Necessary diffe	2	Golden	458.2 528.0 371.0 879.8 763.5	fall—May		51 52 51 53 54	CR CR CR CR	36.9 36.1 36.1 35.0 34.6	44.3 42.5 43.7 42.4 41.9	103 106 108 104 104
Trecessary diffe	Tence	-124.65 pound		G. POD						
2B 10	9	Golden Regina II R-5 Arlo Polish		112 111 111 101 100	25 29 24 19 21	52 53 53 54 53	CR CR CR CR CR	37.8 33.1 33.2 32.7 33.7	49.1 45.9 46.1 43.3 43.2	97 104 101 107 108
Test damaged b	y sha	attering—yields	not relia	ble. Rain	fall—Ma	y to Aug	ust 5.35 ir	iches.		
			WHE	AT POO	DL DI	STRIC	T 11			
1D 11	2	Golden Regina II R-5 Arlo	432.1 325.6 456.5 664.7 607.7	VIN G. 6 111 116 111 95 94	30 28 27 25 22	52 52 52 52 53 53	CR CR CR CR CR	35.0 32.3 32.1 34.6 36.5	46.4 46.1 45.2 41.5 40.0	100 106 106 105 102
Necessary differ	rence-	Polish —115.49 pound		all—May				30.3	40.0	102
	_		LAWRE	NCE R. V				26.1	45.0	07
1D 11	5	Golden Regina II R-5 Arlo Polish	1418.9 1613.7		30 31 29 27 28	52 52 53 53 53	CR CR CR CR CR	36.1 36.1 35.9 35.6 36.3	45.9 45.4 46.6 40.1 38.3	97 100 100 106 100
Samples incomp	olete-	-test damaged	by hail.	Rainfall—	-May to	August 4.	42 inches.			
			WHE	AT POC	DL DIS	STRIC	T 12			
2D 12	2	Golden Regina II R-5 Arlo Polish	270.4 116.3 228.5 408.8 426.2	110 112 111 79 76	26 29 23 21 21	50 (A)* 51 53 53	CR CR CR CR CR CR	36.6 35.0 35.1 33.2 32.8	46.1 41.6 45.2 42.2 40.1	107 107 112 108 100
Necessary differ (A)*—Insuffici		-134.09 pound	s. Raint	all-May						
1.				ORNE SO	HMITZ	, TAKO	1			7
2D 12	5	Regina II R-5 Arlo Polish	80.2 84.3	83 83	16 15	(A)* (A)*	CR CR	29.3 27.9	43.5 40.3	109
Golden, Regina (A)*—Insuffici		d R-5 destroyed	by insec	ts. Rainf						
14.5		,	WHE	T POC	L DIS	STRIC	T 13	1.		
			VICTOR	V. FARI	NELL, S	ONNING	DALE			
3G 13	7	Golden Regina II R-5 Arlo Polish		116 116 116 110 106	33 35 30 23 23	53 53 51 54 53	CR CR CR CR	36.6 39.8 37.5 34.0 33.8	46.6 46.0 45.2 41.7 42.8	99 107 106 106 105

### Wheat Pool District 13-Continued

Cereal Variety Zone Dist	Sub		Yield Lbs. Per Acre	Days Seeding to Ripening	Height in	Lbs. per Meas- ured Bushel	Grade	Per centage of Oil	Per centage of Protein	Iodine No.
				E I. O. ST	TEFFEN		STER			
3D 13	11	Golden	1336.3	120	27	51	CR	42.4	44.7	102
		Regina II		125	27	51	CR	39.6	43.0	104
		R-5		125	28	52	CR	39.4	44.2	104
		Arlo		95	29	53	CR	36.6	40.8	106
Yield differenc	es not	Polish significant. R		95 May to Au	25 gust 4.48	53 3 inches.	CR	35.6	41.1	104
			WHE	AT POC	L DIS	TRIC	Г 14			
	-		TACE	A. HAN	KINS V	ATPARA	ISO			-
3F 14	7	Golden		117	37	50	CR	44.7	40.6	101
J 14	,	Regina II		117	38	51	CR	45.0	36.1	100
		R-5		117	39	51	CR	43.1	39.3	103
		Arlo		96	22	53	CR	38.0	38.2	106
		Polish	1760 8	96	21	53	CR	40.5	35.7	104
Yield difference	es no	t significant. R	ainfall—							,
				ERT A. PI						
3F 14	11	Golden	491.4	117	30	49	2 CR	45.2	36.9	100
		Regina II	522.2	122	29	50	CR	43.2	34.7	104
		R-5	545.4	111	33	50	CR	44.0	35.5	103
		Arlo	734.4	94	32	52	CR	39.5	32.8	107
		Polish	738.5	94	32	52	CR	41.7	33.4	105
Necessary diffe	erence	-140.1 pounds	. Rainfa	all—May to	August	6.02 inch	es.			
			WHE	AT POC	L DIS	STRIC	T 15			
				RYCE BEI						
31 15	9	Golden	828.6	115	26					
J 13						49	2 CR	42.0	36.6	100
J 13		Regina II		115	26	50	CR	43.5	36.6 45.2	109
3, 13		Regina II	801.3	115 115	26 26	50 50	CR CR	43.5	45.2	109
J 13		Regina II R-5 Arlo	801.3 1218.2	115 115 93	26 26 22	50 50 52	CR CR CR	43.5	45.2 34.5	109
	erence	Regina II	801.3 1218.2 1090.3	115 115 93 93	26 26 22 22	50 50 52 52	CR CR	43.5	45.2	109
Necessary diffe		Regina II R-5 Arlo Polish 2—221.73 pound	801.3 1218.2 1090.3	115 115 93 93	26 26 22 22	50 50 52 52	CR CR CR	43.5	45.2 34.5	109
Necessary diffe	ults i	Regina II R-5	801.3 1218.2 1090.3 s. Rain	115 115 93 93 fall record	26 26 22 22 incomple	50 50 52 52 52 te.	CR CR CR CR	43.5 38.7 40.9	34.5 35.5	109 107 103
Necessary diffe	ults i	Regina II R-5	801.3 1218.2 1090.3 s. Rain	115 115 93 93 fall record	26 26 22 22 incomple flooding ern, Sask	50 50 52 52 te.	CR CR CR CR CR	43.5 38.7 40.9	34.5 35.5	109 107 103
Necessary diffe	ults i	Regina II R-5	801.3 1218.2 1090.3 s. Rain	115 115 93 93 fall record	26 26 22 22 incomple flooding ern, Sask	50 50 52 52 te.	CR CR CR CR CR	43.5 38.7 40.9	34.5 35.5	109 107 103
Necessary diffication of the Laboratory research and the L	disc 4	Regina II R-5PolishPolish221.73 pound ncomplete.	801.3 1218.2 1090.3 s. Rain unt of d Mervin D	115 115 93 93 fall record	26 26 22 22 incomple flooding ern, Sask	50 50 50 52 52 te. 3, pests, 1 satchewan	CR CR CR CR	43.5 38.7 40.9	34.5 34.5 35.5 her causes.	107 103
Necessary diffication of the Laboratory research Test 3G	ults i	Regina II R-5	801.3 1218.2 1090.3 s. Rain unt of d Mervin D	115 115 93 93 fall record	26 26 22 22 incomple flooding ern, Sask	50 50 52 52 52 te. s, pests, l katchewan	CR CR CR CR T 16	43.5 38.7 40.9 ught or otl	45.2 34.5 35.5 her causes.	109 107 103
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This laboratory equipment is used to determine the oil content of oil bearing seeds.

# CONCLUSIONS

In spite of a very limited supply of rainfall in most parts of the province during 1958, the yields of crops in general, and of these tests as well, were quite surprising. There was a fair reserve of moisture in the spring and weather in the early part of the season produced sturdy, deep-rooted plants. The temperature during the critical period of July was cooler than normal and this also helped to minimize the effects of lack of rainfall. Heavy, general rains, received in mid-July over most of the province, were of considerable assistance, and conditions steadily improved from that time. Crop yields for the province were nearly equal to the long term average.

No promising new bread wheat varieties have been developed for several years so for the 1958 wheat tests it was necessary to include varieties which had been tested for a number of years previously. For the same reason, it was necessary to include the two durum varieties, Ramsey and Stewart, in a number of northern cereal variety zones in which they would not normally be grown because of their late maturity. In the 1958 tests Thatcher produced outstanding results throughout the province. This variety has a long standing record of good performance and can be highly recommended except in those areas where rust is a potential hazard. Selkirk proved to be somewhat lower in yield than Thatcher under the dry conditions experienced in this year; Chinook yielded well in several zones in the southwest part of the province where it is particularly useful for sawfly control. However, outside this area it does not compete with Thatcher in yield. Lake appears well adapted to the west central part of the province and also to some of the northern and northeastern zones, where it yielded well in spite of its rather late maturity. In the southern part of the province Ramsey and Stewart were only slightly lower in yield than the bread wheats. However, in the northern portion they were quite consistently outyielded.

The oat tests in 1958 were confined to certain areas in the eastern and northern parts of the province where considerable quantities of oats are normally grown. In this year under rust free conditions, Exeter yielded well throughout the area in which oat tests were conducted. Rodney and Garry were somewhat lower in yield but for quite a number of these zones this is more than offset by the greater rust resistance of these two varieties. Fundy, which was included in these tests for the first time, showed promise in only a few scattered zones. Clintland proved to be the lowest yielding variety in every zone in which it was tested in 1958.

Vantage barley produced outstanding results under dry conditions in the area in which it was tested in 1958. This area included the west, south-west and west-central portion of the province. Husky placed second to Vantage in most of this area but it was the highest yielding variety in many of the zones in the eastern and northern part of Saskatchewan. Under the growing conditions which existed in 1958, Montcalm generally outyielded Parkland. The only exceptions to this were in Zones 1C and 3A. Traill appeared to be better adapted to conditions in the eastern and northern areas than to the western part of the province. York, on the basis of only one year's tests appears to have only a limited adaptation in the area along the Manitoba border.

Rape tests were included in this project on a small scale for the first time in 1958. Because of the unusual nature of the year the results of these tests should be interpreted with some care. Arlo and Polish outyielded the other three varieties tested (Golden, Regina II and R-5) quite consistently throughout the province. This may have been due to the fact that the earliness of these varieties enabled them to escape some effects of lack of moisture. It is possible that if certain new markets for rapeseed are developed in the future, it will be important to grow a particular type of rapeseed for a particular use. With this in mind certain laboratory tests were conducted on the samples in an attempt to interpret the effects of variety and environment on some of the characteristics of the seed. Present plans are to carry on this type of analysis for one or two more years.

It is hoped that these tests, in addition to providing yield information from all parts of the province, have stimulated the interest of the young people who supervised them, and have been of interest to producers in the communi-

ties where the tests were located.

# ACKNOWLEDGMENTS

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The Forage Crops Division, Canada Department of Agriculture, Saskatoon, Saskatchewan.

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In addition the Wheat Pool gratefully acknowledges the contribution of more than three hundred variety test supervisors who conducted these tests on a voluntary basis and whose interest and enthusiasm helped to make the project a success.

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